

SEQUENCE LISTING

<110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS

<120> CLONING, EXPRESSION AND CHARACTERIZATION OF THE SPG4 GENE RESPONSIBLE FOR THE MOST COMMON FORM OF AUTOSOMAL DOMINANT SPASTIC PARAPLEGIA

<130> D18374

<160> 71

<170> PatentIn Vers. 2.0

<210> 1

<211> 110000

<212> DNA

<213> Homo sapiens

<220>

<221> exon

<222> (9932)...(10471)

<220>

<221> intron

<222> (10472)...(33718)

<220>

<221> exon

<222> (33719)...(33805)

<220>

<221> intron

<222> (33806)...(35748)

<220>

<221> exon

<222> (35749)...(35832)

<220>

<221> intron

<222> (35833)...(45022)

<220>

<221> exon

<222> (45023)...(45118)

<220>

<221> intron

<222> (45119)...(60863)

<220>

<221> exon

<222> (60864)...(61051)

<220>

<221> intron

```
<222> (61052)...(61927)
<220>
<221> exon
<222> (61928)...(62061)
<220>
<221> intron
<222> (62062)...(62344)
<220>
<221> exon
<222> (62345)...(62438)
<220>
<221> intron
<222> (62439)...(73173)
<220>
<221> exon
<222> (73174)...(73248)
<220>
<221> intron
<222> (73249)...(74633)
<220>
<221> exon
<222> (74634)...(74705)
<220>
<221> intron
<222> (74706)...(82788)
<220>
<221> exon
<222> (82789)...(82864)
<220>
<221> intron
<222> (82865)...(83102)
<220>
<221> exon
<222> (83103)...(83194)
<220>
<221> intron
<222> (83195)...(83334)
<220>
<221> exon
<222> (83335)...(83414)
<220>
<221> intron
```

<222> (83415)...(88129)

3

```
<220>
<221> exon
<222> (88130)...(88172)
<220>
<221> intron
<222> (88173)...(89561)
<220>
<221> exon
<222> (89562)...(89641)
<220>
<221> intron
<222> (89642)...(91162)
<220>
<221> exon
<222> (91163)...(91233)
<220>
<221> intron
<222> (91234)...(93443)
<220>
<221> exon
<222> (93444)...(93484)
<220>
<221> intron
<222> (93485)...(100599)
<220>
<221> exon
<222> (100600)...(102009)
<400>
                                                                          60
taactgactc tgctgtgttt ccttggcatt atagctaatc aaattgagca ggtcaggtaa
cagtttatac ttacacctac tatttcaaaa ccatgagctc attcacattt tcactgaagt
                                                                         120
aacaaatcct ccataaacta gaaaatctca aactggtgac tgggagtttt ggttttgttt
                                                                         180
ttttgttgtt ttattttatt ttattttatt ttctagatgg agtcttgctc tgttgcccag
                                                                         240
gctggaatgc aatggcatga tctcagctca ctgcaacctc cacctttcgg gttcaagcaa
                                                                         300
tcctcctgcc tcaatcttcc aagtagctgg gactacagga atgagctgcc gcacctggcc
                                                                         360
tggtttgttt gtttttaaat tttgaggcca ggtgcagtgg cccatatctg tgatcccagc
                                                                         420
                                                                         480
actttgggag accaaggcag gccgattact tgaggtcagg agttcaagac cagccaggcc
                                                                         540
aacatggtaa aaccatgtcg ctactaaaaa cacaaaaatt aggccgggca cggtggctca
                                                                         600
cgtctataat cccagcactt tgggaggcca aggtgagtgg atcacctgag gtcaggaggt
```

caagaccagc	ctggcaaaca	tggtgaaacc	ccgtctctat	taaaaataca	aaaattagcc	660	
gggtgtggtg	gcgggcacct	gtaatcccag	ctattgggga	ggctgaggca	ggagaatcgc	720	
ttgaacctgg	gaggtggagg.	ttgcagtgag	tcgagatggt	gccactgacc	tccagcctgg	780	
gcaataagag	cgagacgcca	tctcaaaaat	atataaataa	ataaataaaa	atacaaaaag	840	
tagctaggct	ttgtggcagg	cacctgtagt	cccagctact	taggaggctg	aggcaggaga	900	
attgcttgaa	cccaggaggc	ggaggttgca	gtgagccaag	attgtgccac	tgcgttccag	960	
cctgggtgac	agagcaagac	tccttctcaa	aaataaataa	ataaataaat	aaataaataa	1020	
ataaataaaa	ttttgagctg	ggcatgaaag	ctgaggcagg	aggatccctt	gagcccagca	1080	
gtttgagacc	ccagtgagct.	ataattctga	cactgcactt	cagcctggct	gacagaggga	1140	
gaccgtgtat	ctaaaaagaa	taaaataaca	atgatttttg	agccaataac	tcttagccaa	1200	
tagatttcac	ataaaaattt	agaattctgg	tttctcttga	aaaattaaaa	aaatctgaca	1260	
atgttaagct	tcacattcct	gaaaggcaaa	aatcagtgga	agctagctgg	gtgctgtggc	1320	
tcacgcctat	aaacccagtg	ctttgggagg	ctagggtaag	tggattggtt	gagtccagga	1380	
gtttgagatc	agcctggcca	acacagtcaa	accccatctc	tacaaaacat	acaaaaatta	1440	
gctgggatat	ggtggtgtgc	acttgtggtc	ccaactactc	aggaggctga	ggcaggagga	1500	
ccacttgagc	cctggaggtt	gagggggcag	tgagccatga	ttgtgccact	gcactccagc	1560	C
ctggacgaca	gagagacatt	gtctcaaaaa	gaaaaaaaaa	aatcagctca	gtgggagctg	1620	
agtaacagct	gtcctgttca	attacaggat	gcaactcttt	agcttctcat	agtttccatc	1680	
attcacatca	tacatgcatt	tttgcatgcc	acacaaccca	cacatggaac	ccatatatgt	1740	
tatatgcctg	accactgttg	ctattggaag	ttttggccac	tgcattaaac	tataaactcc	1800	
atcttattaa	tcctgacacc	ccacttattg	cctgatatat	tgtccgtttc	ttaatatcta	1860	
ttcatagaac	aaatgaatga	ataatatgtg	ccacattgtg	gactcaattc	agggagatga	1920	
ctaatcattc	acaattatgt	ttttccttct	taatacagag	attggataat	aattccccaa	1980	
ttgttacttc	tctcatccct	cccctccaac	catatctttt	catttgtttt	tcttatttta	2040	
ggttttctgc	ctttttcaaa	atcagccatt	tcctcactgg	actctacatg	tgccattttt	2100	
tttttttt	ttttactaat	ttttttagtt	gaaaagaggt	ccttaatatc	tgtcattggt	2160	
ccacacttga	aatctagaat	ctctcgaatt	gaaggtctga	agagttcctt	agaaggcaag	2220	
tagggccgaa	atatccaaaa	aaaactattt	gatggtaggc	actgtggtaa	ataaatatgg	2280	

gttaaagtga	taaagtgacc	gaatgtcctg	gattagttag	cacagtacct	agctccttct	2340
ttttgtcctt	gtgaaactgt	ctcagattcc	attcaagatt	aagtgtcctg	aaagttctta	2400
caagctgaaa	actgggaggc	tctcacactg	taggtagaat	ggctagcagg	gttgggatct	2460
catctaggca	cattgcagaa	ccagggtaac	accaaggcat	tattttttt	ctttctttac	2520
tttcttctt	tttttttaga	gacagggtct	cattatgtta	cccaggctgg	attccaattc	2580
ctgagctcaa	gtgatcctcc	tgagtagctg	ggacttcagg	tgtgcaccgc	tgtgtctgaa	2640
ggcactgttt	tttttgtttt	ttttgtttt	tttgacacaa	atttaggaag	atgttaattc	2700
acaacagtct	tgagactgag	atataattcc	aaggagcaga	agatgtgagt	ttagagcact	2760
aaaaaatgag	attccagtag	agtcagaaat	ctgaaatggc	attacagata	taagagacaa	2820
aaacaaaatg	tattgagctc	tgtcatgttg	caggcatcat	gatggaggtt	ttagatgtac	2880
tctttcattt	tgtaattttt	atagaggaat	taactagaat	agcaacccca	gtcccactaa	2940
ctctaaatcc	catattttta	ccatacaaaa	aaagagcaaa	agtgcagaaa	agcacagtca	3000
atattaagta	caaccagata	gcagagactc	agtaaatggg	aggccggagg	cccgaaaccc	3060
aacataatgc	ccatgaatga	aagcccatca	cttgcgcttc	aggggctaac	aatatactta	3120
tttcataatt	aaaatagaaa	cagactatgt	aaaaatatta	ttcttgagat	cccagatttt	3180
taccttaaat	tactgaggca	gtaagtgtaa	ttaactaata	tgtgatgttg	ggcaaataac	3240
agactcttag	agccccaaat	tctttatttt	aaaaaactga	ggccagatga	ggtggcttac	3300
acatgtaatc	ccagcactgg	ggatg <u>c</u> caaa	gcaggcagat	cacttgagct	tgagcttagg	3360
agtttgagat	cagcctgggc	aacacggtta	agacctcatc	tctaaacaaa	atacaaaaat	3420
tagccaaaca	tggtggtgtg	cacctgtgtt	cctggctact	caggaggctg	aggtggaagg	3480
atcgcttgag	cccgagaggt	tgagggtgca	gtgagccatg	atcttgccat	tgcactctac	3540
actctagtct	gggtgacaga	gtgagactct	gtcttggggg	aaaacaaaag	agatgataat	3600
gcttaactga	agtagcaata	ttttaaaaag	gcactaaaag	ttcatctgct	tagttcagaa	3660
tatgggttcg	ataaatatta	gcaagtagta	gtagtcatca	tcatcactgt	cactgctgtt	3720
ctctccttaa	acttaagcat	gttttttgtt	tttttgagac	agtgtctcac	tctgtcaccc	3780
aagctggagt	tcagtggtgt	gatcttggct	cactccaacc	tctgcctccc	aggttcaagt	3840
gattctcctg	tctcaccctc	ccaagtagct	gggaccacag	acacgtacca	caaccacacc	3900
cagctaattt	ttcgtatttt	tggtagaggt	ggggtttcac	catgttggcc	aggctggtct	3960
tgaactcctg	acctcaagtg	atccacctgt	ctcggcctcc	caaagtgctg	ggattacagg	4020

	cgttagccac	agcatccagc	cttaagcatg	ttaattaagt	ttttataatt	cagcaaaatg	4080
	gttggaaaat	gctgtcttaa	atgagatgct	taagctgccg	tctgaacatg	aggtagaagg	4140
	aaattctaca	cataatcatt	gtgctaaatt	acttgcaaag	atggccacaa	caattcctcc	4200
	tatcctcata	tatatgcccc	tttgcaatgt	gactttgcta	cttctctatc	aagatgtgga	4260
,	gcttattttc	ccatatattg	cactagagtt	ggccttctga	cttgctttga	caatggaatg	4320
	tagtacaaat	gacactgtgc	aactttggat	tttaggtttc	gagagaactt	acaccttcca	4380
	ctcacactct	cttggaaacc	agatgcaatg	taaagaagtc	agggctatcc	tgctagagac	4440
	atatgtccca	gctaatagcc	acaatcaacc	tctgaacata	tgaatgaggc	tagctaggcc	4500
	atacagccat	tcggtcaagc	catcagatga	ctacatccac	aggaatgatc	cacaggcaag	4560
	gccatcagaa	gaaccatcca	gctgaactta	ccccaaattg	ctgagtcaca	aagttgtgtg	4620
	taaataaatg	tctgctatct	taagccagtg	agttttggag	tggtatatta	catagcatca	4680
	gaaatctaac	acaatcatta	tgtttgaatc	atttttcaaa	tttctcatat	ttattaaatg	4740
	agtaccataa	gcaaggtgtc	aggctggatg	caaaaagtga	ggcaaaatgt	ataaagtgtg	4800
	accactgcct	tcagtaagtt	tacaatctat	atcaagaggt	gatgaagtgt	ttaaataatc	4860
	atcctgcagg	gcaatatagt	ataagagcca	cagagtaaca	caaccatatt	gtcataacaa	4920
	ctgaaaaaca	agatcatttc	tgctggaggt	gataatggaa	taatttatca	agaatataac	4980
	agagctggac	gcggtggctc	acacctgtaa	tcccagcact	ttgggaggcc	aaggaaggtg	5040
	gatcacaagg	tcaggagttc	gagaccatcc	tggctaacac	gatgaacccg	tctctactaa	5100
	aaatacaaga	aattagccgg	gcgtggtggc	acgcgtctgt	agtcgcagct	actcaggagg	5160
	ctgaggcagg	agaaccactt	gaacatggga	agcagaggtt	gcattgagct	gagatcgtgc	5220
	catggcactc	cagcctgggt	gacagagtga	gactcagtct	caaaaaaaaa	aaaaaaaaa	5280
	aaaatataac	attagaggta	agtcttgaag	gactttgaca	gtggaagtag	gaggcgaggc	5340
	cattctaagt	gaatgaaaaa	tgacaggaga	gtaattgtag	tcctggaaaa	gagcaaagta	5400
	ggtacagacc	aacagtctat	attagctaga	gtatagtgaa	agtgcagagg	aaatgtcgga	5460
	gaaccattct	ttattcaaaa	actatcttcc	tcatggccaa	gcatagtggc	tcatgcctgt	5520
	aatcccagca	ttttgggagg	tcaaggtgag	tggatcactt	gagctcagga	attcaagacc	5580
	atctggggca	acatagtgag	acctcatctc	aactaaaaaa	caaaaaattc	agacagatgc	5640
	agtggctcac	acctgtaatc	ccagaacttt	ggtaggctga	ggcgggcgga	tcacgaggtc	5700

• •						
gi (a)	•					
		•				
			7			
aggagatcaa	gaccctcctg	gacaacatgg	agaaacccca	tctctattaa	aaatacaaaa	5760
ttagctgggc	atggtggcac	atccctgtaa	tcccagctac	tcgggaggct	gaggcaggag	5820
aatcgcttga	accagggagt	cggaggttgc	agtgagccga	gatcgcacca	ctgcactcca	5880
gtctggcgac	agagcgagac	tccatcttaa	aaaataaata	aattttaaaa	aaaactaccc	5940
cagcatggtg	gtgcatgcct	gtagtcccag	ttactcagga	ggctgaggca	agagggtggt	6000
ttgagccagg	gaggtcaagg	ctgcagtgag	ctctgatggc	gccactgtac	tccagcttgg	6060
gtgacagagt	gagaccttgt	ctcaaaaaca	aaaacaaaaa	caaaaaacca	acaaatctcc	6120
ttgttagtat	catggtgagt	aaaaaataaa	ataaaaatag	aaataaactg	aacatggtgg	6180
ctcatgcctg	taatcctagc	actttggaag	gctgaagtgg	gaggattgct	tgagggctgg	6240
agttcaaaac	tggcttgggc	aacacggtga	gagagacctt	gtctctacaa	aagaactttt	6300
aaaacaaaaa	atagataatt	taaaaaaatt	aaaaaaaca	aaaaataaaa	aaataatcaa	6360
gtatcaactt	gattccaggc	actgcttact	actctagtgt	tatactgtag	atgtggaagc	6420
tgagtaactc	atccaagatc	accgaaagtg	atggaacaca	gatctaaatg	caaccagtct	6480
gactccagga	ccatttaacc	attctactat	tgggccctat	cttggctaag	ttagaaagta	6540
agttactttc	tttagtggta	aagactggag	ggataacagg	gaagatagtt	atttaagaaa	6600
aaaaactggc	atcaaactaa	atatccatca	atagttgaac	agtaaaatag	gttgtggtaa	6660
attcatataa	tggaatacta	tatagcagtg	aaaatgtacc	acagttatag	aaatcaacag	6720
ggaggaattt	caacacttaa	ttattaagta	ggtagccagg	catagcggtt	tatgcctgta	6780
atcccagcac	tttgggagac	caagacagga	ggattacttg	agcccagggg	ttcgagatca	6840
acctgggcaa	cagtgagact	ccatctctat	tttcttaaaa	taaaataaat	gaaattttaa	6900
aaattttgag	gagggaaagc	aaacaaggga	tacttgaaat	atgattacat	ttccataaag	6960
tcaaagtgag	gcaaaatcat	acaagacatt	gtttagaaat	acataaatac	actgcaaact	7020
aaaaatgaga	cactagaatg	attaatataa	aattcaggat	agtggcttcc	tctagaggaa	7080
gagacaagac	attgagatta	gggaggagct	cacagagtgc	ttcgaggagt	tggttacatt	7140
catttttctt	aaatggaatg	ctgcttatta	tttttcttta	aattgtgcat	ttaagtaaca	7200
cacttcttgt	ttatatgata	tatgtataaa	tgtaattttt	ttttttgaga	tggagtttcg	7260
ctcttgttgc	ccaggctgga	gtgcaatggc	actatcttgg	ctcactgcaa	cctccacttc	7320
ctgggttcaa	gtgattctcc	tgcctcagcc	tcccgagtag	ctgggattac	aggcatgcgc	7380
caccatgccc	ggctagtttt	gtatttttaa	tagagaaagg	gtttctccat	gttggtcagg	7440

ctggtctcga	actcccgacc	tcaggtgatc	cgcctgcctt	ggcctcccaa	agtgttggga	7500
ttacaggtgt	gagccaccgt	gccaggccct	gaatcagatt	taaaagaggg	catttcatta	7560
aaaaaaattt	tttgttgttt	gcttttgaga	cagagtctcg	ctctgtcgcc	caggctgcag	7620
tgcattggca	tgatcttggc	tcaccgcggc	ctcagcctcc	caggttcaag	tgattctcct	7680
gcctcagcct	cgcactagtt	gagattacag	gaatgcacca	ccaccacagg	aatgcacctg	7740
tctaactttt	gtatttttag	tatagaggga	gttttgccat	gttagccagg	ctgctcttga	7800
actcctgacc	tccggtgatc	tgctcgcctc	ggctcccaaa	gttctgggat	tacaggcgtg	7860
agccaccaca	cccggccgaa	agagggcatt	tcagaatgag	ggtctagcat	aagcacagag	7920
aagggggagc	aataagaggg	aaacagggag	taggtcattt	ttgcaatagc	ctgtgacatt	7980
tgtagggcag	tactggcggg	gaataattaa	gtaaaattgg	ctggtgctgt	ggctcatgcc	8040
tgtaatccca	gcactttggg	aggccgaggc	gggcaggttg	cttgagccca	ggaattcaag	8100
accaacctgg	gaaacatagc	aagaccctgt	ctcaacaaaa	aagtaaaaaa	attagctggg	8160
ggcgcgatgg	ggtggctcat	gcctgtaatc	ccaacacttt	ggaaggctga	ggcaggcgga	8220
ttgcttgagc	ccaggagttg	gagaccagcc	tgggcaacat	ggtgaaaccc	tggctctata	8280
aagaatacaa	aaattagtcg	ggcccagtgg	cgtgtgcctg	tgatcccagc	tactcgggag	8340
gctgaggtgg	aaggatcacc	tgagccaggg	aggtggaggt	tgcagtgagt	catgttgttt	8400
gcgccactgc	actccagcct	gggcaatgga	gtgaaaccct	gtccaaaaaa	taaaaaaata	8460
aagctgtggc	agaatgtgga	gattcttgga	agctggaagc	tctcatgggg	catttggaaa	8520
cctcacattg	taaataacgg	agtctttta	tcagtttggc	ttccttagtt	ttaggaaaca	8580
agaaataatt	atggctaact	caagtaaaaa	gagaaagaga	agagaaaaaa	gacgtggaga	8640
tagagagaga	gggagagaga	ggaaaagacg	aaaggaagga	agggggaaag	gagagaggaa	8700
gagagaaaca	gagaaacaga	ctgattagtg	tattggatag	attacataac	caagtgacca	8760
gtcaggaacc	cagcagctct	gggggagctc	aatgtgatgc	attgataaac	ccgctcttaa	8820
gagcactcgt	ttccagttac	tttctattcg	gtgggtctcc	agccaagatt	ccaggtccca	8880
ggagaatctg	actgacctag	tgtttgcttc	cgcctttgcg	gtctgggttc	tgtgcttgca	8940
gctcattaga	atacagggag	cagagacaag	caggtagttt	cccaaaggaa	gggatgctga	9000
gtagattaaa	aaaaaagtgt	agattcttca	gtaaactatg	ggatggtaac	tatgcaaaac	9060
ctaagatttc	ccttattcaa	ataaattatc	tttcatatta	gacatctaaa	tatgcactaa	9120

9180 cccctgggtt agttgatctc atcacactga gctaacattt ttgttgctgt tttagttaaa 9240 cacaattgct tgtttgcagt gacctgaagt ttcttatctt ttcctctcaa ataattccca 9300 ttttattta ttttttctgg agacggagtc tcgctctgtc gcccaggctg gattttaaat 9360 agctcacttg cagcctctgc ctcccgagtt gcgcgatctc caagcgattc gagtgcagtg 9420 cgcccccacg tccggcctta gccttccaac cagctgggac tacaggcgcg cccggctaat 9480 cattgcttct gagatgggcc aattatcctt cggagaagac ttaattccca gattgatatc 9540 aatctaagaa aacgacgaca ctgagagagg ttaggtcgcc tggcagaaaa agatgaaaga 960,0 agcctagcga cgaccccaag ccgcaattcc cccttccgtg gatcgattac accagcagag 9660 tctccagggc tgccgacgtg agccgaactg cacattggga gaaggcttcc tggcaggagc 9720 gggccccggt actgtagttg ccgagaggcg ggggccgcac acgcgtacag agtgggaaag 9780 acgggaagac gtgcgcgtgc caacaaagac gcgccgtgcg cgcgcgcgcc ggagaaaaac 9840 cgacaggaag ggagggccc gcggccgccg ctgggagcca ccaggcggcg gagaggacag 9900 gagccaccga ctgcaggagg agaaggggtt gtgctcctgg ccgaggaagg agaaaggggc 9960 ggcagcgtgc acacgggggt ggcagtgcgg agctcctgag accggcgggc ggggccggcg 10020 gtggctgccg ccgtcgcttg gttcccgtcg gtctgcggga ctgtggcccc cgccgtagca 10080 gcagtgagag ctgtgaatga attctccggg tggacgaggg ggcgggttat ggcggcggcg cgccagcaac ccggtgcctc ccaggcctcc gcccccttgc 10140 aagaagaaag gctccggcgg 10200 cgccgggccg gcccctccgc ccgagtcgcc gcataagcgg ctggcccccg ccctcccgc 10260 aacctgtact atttctccta cccgctgttt gtaggcttcg cgctgctgcg tttggtcgcc 10320 tgccagcgct tctcccgcgc cctcatggca ttccacctgg ggctcctctt cgtgtggctc ggcgccggtg 10380 cgcgccagca cctgcctcgg cctcggcccc gccaagagga gctccggggc 10440 gtacatctcc ccgggcggcg aggccgagcg cgtccgagtc ttccacaaac aggccttcga 10500 agggggcggc ggatgagaaa ggtaactagg gggctggggg attgccctgc gcatcgatga 10560 cccttttctg ggcgccggga agaaggcggt ggggtcgccg ggggagggca acacctgcgt 10620 tcccgtaggt cggtgcaccc ccggaattga tatgccccgg gagactgctt cgggaggga cggagcctca tcttctagta ttcttaaaac ctctcccctt tcagggcact gtagctgtcg 10680 10740 actttgtttc agacaccagc cttcccccac acttctgcat gacccaggtc actatgagac gtgacatttg tcctagagtg accacactga tcctttctag 10800 acccagacgt gttgatgaca 10860 agtgtgcagc ttcctctgaa ccaaggtttc caaaaggttt tgatattgaa

gaagcagtgc	cgccttactg	gcttttaatg	aaagcagagt	attgtagtgt	cagaaaaaaa	10920
gaacaaatgg	tgacaatttt	gaaagaaata	gctgcatatg	actgcagttg	aatttgcatc	10980
attttaatca	agataatcat	tttatcagta	caacgattcc	tgaatacttt	ttcaatgaag	11040
ttatatttag	cataaaactt	ttccccctgt	tgctttgatt	ttaattaaaa	cagtattcca	11100
aagtagcctt	taatttccaa	gttgaaatgt	ttgatgaatg	gattgcgtaa	acttaaacat	11160
accactttac	agtaaaacct	aaaacaacta	tgtatgtttc	tgaatgaaag	caaggatact	11220
acatctttcg	ggtttctttt	aagctaactt	tttttttt	ttgagacgga	atctcgccct	11280
gtcgcccaag	ctggagtgca	atggtgcagt	ctcggctcac	tgcaacctcc	gactccctgg	11340
ttccagcgat	tctcctgcct	cagcctcccg	agtagctggg	attacaggca	cgcaccacca	11400
cgcctggcta	atttttgtat	ttttagtaga	gtagggattt	caccatgttg	gccaggatgg	11460
tctccatctc	ctgacctcgt	gatcgggtcg	cctcggcctc	ccaaagtgct	ggtaatacag	11520
gcatgagcca	ccgcgcctgg	ccttaagcta	acattttta	ttatatgtgc	caggcattgt	11580
gctattagct	ttgcatgtgt	tatcttttt	ctttttaaaa	aaaatagcaa	ccatcccaga	11640
ccatgaaaag	tgttatttaa	tcctcacaat	aactttgtga	gatgaaggta	ttattggtat	11700
cagcatttta	gagatgaaga	aaatgaggcc	caaaagataa	aggaggttat	tccaaacctg	11760
tgctaataat	gaaatttctt	ttatggaaaa	taagtgaaat	taggagaagt	ctaactttta	11820
caattctccc	cttttatcct	tacttccagt	atgctgagat	cttgcttctc	cctctgccaa	11880
aaacacccac	ttttctacca	cacctcaatt	agatactcac	ttgcattgtc	cattagtgaa	11940
aacagaaaca	atctgcactt	cattcatagt	gtctgtctct	actgccaact	ccaaaaactg	12000
ttctagaatt	tcaatcttgt	tgaaacctgt	ttcctttgtg	gggcctggga	gtgggaagtg	12060
ggatataagg	aaagaggcag	ttattcattg	ttttggacag	taaggaaaga	gtgacggtta	12120
agagaggtca	aggagggtgt	taacatttaa	gaatactatg	tgtttgtaga	aggaaatttt	12180
ttgttaactg	ctccattctt	tttttttt	ttttttgaga	tggagtctcc	ctgtgtcacc	12240
cagactggag	tgcagtggcg	tgatctcagc	ttactgcaac	ctctgcctcc	cagacgcagg	12300
cgattctctt	gcctcagtct	cccgagtagc	tggaaccaca	ggtgcgccct	atcacggctg	12360
gctaattttt	tgtattttta	gtagagatgg	tgtttcacca	tgttggccag	actggtcacg	12420
aactcctgac	ctcaggtgat	tcgcctgcct	cgaccttcca	agtgcttgga	ttacaggtgt	12480
cagccactgt	gcccacccag	caagctccat	tctttatcac	ctcttaagaa	catccaggat	12540

cccttgggga	gaattaaaac	ggttgcaaag	ttttagaata	gaggaacatg	tttaagcgta	12600
gatcattttt	tgggccagtc	atggtggctc	acgcgtgtaa	tcccaacact	ttgggaggcc	12660
ggggcgggtg	gatcatgagg	tcaagagttt	gagaccatcc	tggccaacat	ggtgaaatcc	12720
catctctact	aaaaatacaa	aaattagctg	ggcatggtga	cacatgcctg	tagtcccagc	12780
tactcaggag	gctgaggcaa	gagaagtgct	tgaacctgga	aggtggaggt	tgcagtgagc	12840
cgagatcgtg	ccactacact	ccagcctggg	cggcagagca	agactccgtc	ttgaaaaaaa	12900
aaagtaggtc	atttttggct	gggcacggtg	gctcatgcct	gtaattccag	cactttggga	12960
ggctgaggtg	ggtggattgc	ttgagcccag	gagtttgaga	ccagcctggg	caacatagtg	13020
aaaccctgtc	tttgtgaaaa	atacaaagat	tagctaggcg	cagtggcaaa	tgcctgtagt	13080
cccagctact	tggggggctg	aggtaggagg	atcacttgag	ctcaggttgt	tcaggctgca	13140
atgagctgag	atcgtgcaac	tgcactccga	actgggtgac	aggagtaaaa	ctgtctcaaa	13200
aaaaaaaaa	aaaaaacca	aaaaaaaaaa	aactgtttta	attgttttat	ttaggaagag	13260
aaagtcagaa	catgcaagga	aattttttt	atttgtttat	ttttgagacg	gagtctcgct	13320
cagttgccca	ggctggagtg	caatggtatg	atcttggctc	actgcaacct	ctgcctcccg	13380
gattcaagcg	attctcctgc	ctcagcctcc	tgagcagctg	ggattacagg	tgtatgccac	13440
cacgcccagc	taatttttgt	gtttttagta	gagatggggt	tccaccatgt	tggccaggct	13500
ggtttcgagc	tcctgacctc	aagtgaaccg	ccctccttgg	cctcccaaag	tgctgggatt	13560
acaggtgtga	gccgcggtga	ccgaccacaa	ggaaatttta	gttaacactg	ttggttgatg	13620
ggagttggga	ggtaggataa	aaggagaaat	taaggaaaac	ctaggcatga	aaaataaaag	13680
accctgagct	cttagatttg	aagaaatagc	agttccatgt	gaggaataag	tggaagaaat	13740
agaattcaga	cctcaggtct	caggctggtg	acttaaatct	ttcagtatca	catatatgaa	13800
tatatctatt	atacttaaat	cctcctaaac,	atttttattt	ttcagttgga	tatattaaat	13860
atataaaaat	aattatttaa	tttattttag	agacagtgtt	tcactctctt	acccaagctg	13920
gagtggaatg	tgatcatagc	tcactgcagc	ctcaaggctc	attcctaggc	ttaagtgatc	13980
ctctttttt	tttttttgct	agagatagga	tcttgttatg	ttagccaggc	tggagaaatt	14040
tcaacaatat	tttgaacaat	aaaaaaaaa	taaattaggt	tttattgtaa	agtggtatgt	14100
ttaagtttac	gccattctcc	tgcgtaatgc	atatttcata	ctcttcctac	tgataatgtt	14160
tctgttcaca	actttttctt	tatattttga	tttcttttct	cttttctttt	tttttttt	14220
tgagacagag	cctcgctttg	tcgcccaggc	tagagtgcag	tggcgcgatc	tcggctcact	14280

						1 4 2 4 2
gctagctccg	cctcccgggt	tcacgccatt	ctcctgcctc	agcttcccga	gtagctggga	14340
ctacaggcgc	ccgccaccat	gcccagctaa	ttttttgtat	ttttagtaga	gacggggttt	14400
cactgtgtta	gccaggatgg	tctcgatctc	ctgacctcgt	gatccacccg	cctcggcctc	14460
ccaaagtgct	gggattacag	gcgtgagcca	ccgcgcccgg	cacatatttt	gatttctaat	14520
gtggacatca	gaatgggctg	ttgacagctc	tttttttt	ttttgaggca	gagtctcgct	14580
tcttcaccca	ggctggagtg	caatggcgcg	atctcagctc	actgcaacct	ccacctccca	14640
ggttcaagcg	attctcctgc	ctcagcctcc	ccagtaactg	ggattacagg	catgtgccac	14700
cccacaccca	gccaattttt	gtatttttag	tagagacagc	atttcaccat	gttggccagg	14760
ctgttctcga	actcctggcc	tcaagtgatc	cactcgcctt	ggcctcacaa	actgctagga	14820
ttacaggtgt	gagccaccgt	gcccagcctt	gacaggtctt	tagtttgatt	ttagttcaac	14880
aactgatgcc	gtaatatgcc	aaattaaatt	agttcagact	gaaacggatt	acttaaagat	14940
tcattttcct	ttaaaaatga	agtaaaactt	tagccggatg	tggtggcggg	tgtgtgtaat	15000
cccagctact	cgggagggtg	aggcaggaga	atcgcttgaa	cccaggaggt	ggaggttgca	15060
gtgagctgag	atctcaccca	ttgcactcct	gcctgggtga	gaagagtgag	actccatcaa	15120
aaaaaaaaa	aaaggctggg	catggtggct	caagccgggt	gcagtggccc	atgcctgtta	15180
tcccagcact	ttgggaggca	gaggcaggcg	gatcacttgt	agtcagaagt	tcgcgaccag	15240
cctggccaac	atattagtga	aaccccgtct	ctactaaaaa	tacaaaaatt	agctgggcat	15300
agtggtgcac	gcctgtagtc	ccgggtactt	gggacgctga	cgcaggacaa	ttgcttgaac	15360
tccagaggtg	gagattgcgg	tgggccaaga	tcacgccact	gcacgccagc	ctgggcaaca	15420
gagcaagact	ccatctctca	aaaaaaaaa	aaaaagaaaa	ctgagtttat	attgttatgg	15480
ttcttatcta	tcttaaattt	tttctttagg	agattgaata	tttttgtact	ttagtcttaa	15540
tccagtggtt	gaaagagagt	gcacttttga	agtctgcctc	ttggctgtcc	ttgacaacac	15600
aaaccttagt	tccaagagaa	tgtaattctt	cctctttctc	agtgcttcaa	aatatatatg	15660
atcaaataga	aacgagttga	ataggcagtc	tcttcaaagg	tttcctaact	ctgtggttaa	15720
ctatcaagga	gctggtaata	tcatgcactg	ccattccctt	ggcaacatga	cttatctttt	15780
tttttttt	ttcttttttg	agacagagtc	ttgctctgtc	acccaggctg	gagtgcagtg	15840
gcgagatctc	agctcgctgc	aagccccgcc	tcccacgttc	acgccatttt	cctgcctcag	15900
cctcccaagt	agctgggact	acaggcgcct	gccatcacac	ctggctaatt	ttttttgtat	15960

tttttagtag	agacggggtt	tcaccgtgtt	agccagtacg	gtctcgatct	cctgtcctcg	16020
tgatccgccc	accttggcct	cccaaagtgt	tgggattaca	ggtgtgagcc	actgcgcctg	16080
gcctacttat	cttctaattt	aactgaaaac	caatttattt	gattcagtga	aatggcatca	16140
aactgtagta	gtgttaattg	aaatatttgg	taccttgaaa	tgttaaatgc	caaattaaat	16200
ctcattttaa	tgaaatctcg	tgtaaatgtg	ttttatatgg	tgactatgtt	tattctgaat	16260
tttattctta	tggcatacta	aaaaaaaaa	aaatttttt	ttttttttgt	aatggagtct	16320
tgctctgtca	cccacgctgg	agtgcagtgg	cgcaatctcg	gttcactgta	acctccacct	16380
cccgggttca	agcgattctc	ctgcctcagt	ctcccgagta	gctggtacta	caggcgtgca	16440
ccactatgcc	tggctaatat	ttttgtattt	ttaggagaga	cagggtttca	ccatgttggt	16500
caggctgatc	tcgaactcct	gacctgaagt	gatccgcctg	cctcagcctc	ccaaagtgct	16560
gggattacag	gtatgaccca	ctgcacccaa	cccatactca	aatttgacac	tgaattttca	16620
taaaggcctt	aatttatctg	aaaccaaact	atttcaaaag	aggaatagca	cagcaaattc	16680
tgttgactta	atgagaggat	atgtgaagtc	tatttattaa	agcaaatatt	aattggaggc	16740
cagttaattt	gtacagctct	gcattttaga	tatttgagaa	atatttattt	cctctccagt	16800
gagatgtgtt	aaaacattag	ttatgtgatt	aacaaatatg	tgtacatacg	tatatatgta	16860
catacacatt	ttgagacagg	gccttggtct	gttgttcagg	ctggagtgca	atgacaccat	16920
cttagctcat	tgaagcttca	gcctcgcagg	ctcaatcgat	ccacccacct	cagcctccct	16980
agtagctggg	tctacagaca	tataccacca	tgcttggctg	attttttaat	tttttgtaga	17040
gatggtgatc	ttgccctgtt	gactaagttg	gtaaatattt	taattgttga	actttcttgg	17100
aagactgaaa	acctgtgata	gccattttat	ataaggagaa	gctgaagttc	aaagagtaga	17160
ctcatagcag	aaacaaaaat	agaatttaag	tgaatggact	caaaatattg	tactttttac	17220
tttatactgc	aggtttttat	gttgtaatgc	tggtaatgag	ctccttggaa	tatttggagg	17280
aaaagagaag	gttgtaataa	tggttctttg	gatttactag	aacatatcat	gttctgcatg	17340
gctcctgtgg	gtagacaagc	cggaaatctc	ctgggtaaca	caatggtgga	ggttctctag	17400
gtgacgtttg	atttctcaag	tacataggac	taaacagaaa	aggcctagta	tgttatatga	17460
atgagagatc	aagtttctca	ggatattcta	gggctaaagg	atcaggcatc	gaagacagaa	17520
attgtctaaa	taaaattttt	tctattcata	gttttaaagg	gctaaagggt	caggcattga	17580
agacagaaat	tgtctaagta	aaatattttt	ctgttcatag	ttttaagctg	tgtatatgtg	17640
catgtgtgta	tttaaaataa	cttcgtcaat	gaaaagagtc	aaactctgta	aaatatttga	17700

agagatttat	tctgagccaa	atatgagtga	ccagtggccc	atgacacagc	cccagtagat	17760
actaagaaca	tctgtccaag	gtggtcaggc	tatagcttga	ttttatacac	tttagggaga	17820
cataagacgt	cagttaaaca	tgtaagatgt	acattggttc	catctggaaa	ggcaggaaaa	17880
ctagaagttg	gggaggcttc	caggtcgtag	gcagattcaa	agattttctg	attggcaatt	17940
ggtcaaaaga	gcttatctaa	agtcctggaa	tccatagaag	ggagtgtctg	gtttaaaata	18000
ataggttgta	gctaccaagg	tttttattgt	acagatgaag	cctccaggta	gcaggcttca	18060
gagagaatac	attgtaaatg	tttcttatga	gactttaaaa	ggtggcagac	tcttaagtta	18120
attttctcct	ggttcaggta	aaagacttgg	aaagggaaag	gattctctac	agaacgtaaa	18180
ttttccccac	aagagaaagc	tttgcagggc	catttcagaa	tatgtcaaag	aaatataatt	18240
tagggtaaaa	tacttcaatt	tgttttattt	atttatttat	tttttgagac	agagtctcgc	18300
tctgttgccc	aggctggagt	gcagtggcat	gatctcggct	cactgcaagc	tccgcctcct	18360
gtgttcacgc	cgttctcctg	cctcagcctc	ctgagtagct	gggactacag	gcgctggcca	18420
ccatgcccag	ctatttttt	tgtatttta	gtagagacgg	gatttcacca	tgttggccag	18480
gatggtctcg	atctcttgac	ctcgtgattc	acccgcctcg	gcctcccaaa	gtgctgggat	18540
tacaggcgtg	agccactgtg	cccggcctca	aaatacttca	atttctttca	tggcctgcta	18600
tctgacgtga	tgctgtacta	gagtcaggct	gggaatttgg	cgtcttattg	ctacaaaaca	18660
tcttaatatc	tctgttttaa	tgttaatgct	gatcagttgt	ccctgaattc	caaagggaag	18720
agggtatatg	agtcatgtcc	aacccccact	tctcattatg	gcctgaacta	gttttttagg	18780
ttaactttgg	aatgcctttg	gcaaggggag	ggtccatgag	tcagttgggg	gtcttagagt	18840
tttattttt	gcttaccggt	ttataaaaag	ttaatgaaaa	ttatcatatt	tcataattct	18900
atataattca	atattgtact	ttatttaaaa	ctcacgtata	aaatagctgt	ccatatctgt	18960
tttcagaaga	tgaggatgga	gggtagaaat	cagaagtgtc	agatttggta	attttcttac	19020
actgctgaaa	acctatacct	accactttga	aaggattaat	ttcagacttg	ctttctttgg	19080
gcctaatgat	tctactttga	agtttctctg	attaaactaa	ggaataaatc	tgataaatgg	19140
acattcagat	gataccatac	ttttccaaaa	gataacattg	cttttgatta	catatgcaat	19200
aaacatttca	cattttttct	caagattatt	tactggcatc	tgcaccaaag	acacaaaaaa	19260
gcagccactg	ttaaggactt	tatcccttgt	tctgttttta	gctggtttgt	tgttgtattt	19320
ttcctcatgt	tgaatacagt	taaaccctat	taaactggat	tccccatatt	actgttagtt	19380

gtcctgatga	caattaagga	tagttagtaa	atggatattg	aatcatttta	tttttttagt	19440
agtgatggcg	tttcgctgtg	ttggccaggt	tggtctcgaa	ctcctggcct	caagtgatct	19500
gcctgtgttg	gcccctcaaa	gtgttaggat	tacaggcgtg	agccactgca	cctggctgga	19560
tattgaatta	ttgaagaagg	atgttcccta	acacttcctg	cctcttttcc	gctgtcttac	19620
tctctctgtt	ccacccagta	gtagttgggt	ttttgatgtc	tggcaaagta	tagattgtct	19680
actcttctat	attagttttc	ttcactcttt	tttttaaaaa	tgtttttaaa	gcaagataga	19740
gacagggtct	tgccgtattg	cccaggctgg	tcttgaactc	ctgagctcaa	gcaatcctcc	19800
cacctcaccc	cataaagtgc	ggagattaca	ggcatgagcc	accatgcctg	gccagttttc	19860
ttcactcttg	acctataata	gtcctgcaaa	gccagtgaag	ctgttaatat	gctgacgtag	19920
ccttttttc	tctcgtttgt	gaattattaa	caatcgctga	tcttacacat	catatacaat	19980
aaaacatctt	tgaacactgt	cacatctcag	cagctcattc	tggttaatga	ggaaagaaaa	20040
atgtcaaaat	ctgtgatttt	cttagaggtt	attaaatgtt	ttacagctat	gtagatattc	20100
tgtagacttg	ctgtacttac	ttacataact	tttctgctct	tctgcagagg	gagagaatta	20160
acttcataag	tgggctttgt	caatgccctc	cagtcagcga	tctccaggaa	caaacttatc	20220
tatggttgag	caagtggggt	ttattaccca	ctgtagccag	ggagaacaca	catatgtaat	20280
aaccatggta	tgtcatagta	aagggtgtta	ggaagatagg	atttgggctc	gtttatttgg	20340
tgattttaag	gagggtttaa	agaagcaggg	ttttgctctg	atttggatgc	taccaggagc	20400
tgcgaataat	tctatgaata	aatatcataa	aacctatcta	gaagaaaaga	ctagagtgag	20460
gtctaaagct	gtagtagtta	aaaagcaaag	gtcactcctt	atctggaaaa	ggggaatatt	20520
tggtatttca	tggtttagac	agtgttcagt	gttcatgttt	tgcctgtgtt	tagacataat	20580
tgtagagtgg	tcttgttcca	ccgtggtcac	agagtggcat	tatttcatgc	tgatattctg	20640
taagtgccag	gtcaaatacc	aaggtttagc	tgatagtagt	aggccagctc	ctggatgtaa	20700
taagctgttt	ttctctttct	cagcttttt	ttttgttgtt	tttttttaa	aatagagtct	20760
ggctctgtca	cccaggctgg	agttcagtgg	gggcaatctc	agctcactgc	agcctctgcc	20820
tcctggattc	aagcgactct	cctgcctcag	cctcccaact	agctggaatt	acaggcgcaa	20880
gtcaccacac	ccggctaatt	tttgtatttt	tagtagagac	ggggtttcac	catgttgagc	20940
aggctggtct	cgaactccgg	acctcaagca	atccatctgc	ctcagcctcc	caaagtgctg	21000
agattacagg	catgagtcac	tgcacctggc	ctgtttctta	gatttgaggg	tcaactttta	21060
cccttttcga	actgtggggc	ttcttatgga	aattgacatt	taagtcctga	ccatatagga	21120

		•				
tcttgggcaa	gttacttaac	tatgtatgct	gagatgtttt	tttaaatgct	tagtgcttgc	21180
acataatagg	tactcagtaa	atgagaacta	ttattataaa	atcaatagta	cttttaagat	21240
tacagctaga	ggttatgtta	gaacattgtt	aactcttcgt	actagtttct	gttacacttt	21300
ttaggatgca	gtagcagcat	aaacgagata	tggggaagaa	cgagaggtat	ttaaacagtg	21360
atataggccg	ggcgtggtgg	ctcacgcttg	taatcccagc	actttgggag	gctgaggtgg	21420
gcagattacg	aggtcaggag	attgagacca	tcctggctaa	cacggtgaaa	ccccatctct	21480
actaaaaata	caaaaacaaa	attagccggg	cgtggtagtg	ggcgcctgta	atcccagcta	21540
tttgggaggc	tgaggcagga	gagtggcgag	aacccaggag	acagagcttg	cagtgagccg	21600
agatcgcgcc	actgcacccc	agcctgggcc	acagagcgag	actctgtctc	aaaaaaaaa	21660
aaaaaaaaaa	attaaaacaa	aaatatttgt	gttaattgtg	atgacaaaaa	aaaaaaaaga	21720
gatggaagtc	tctccctaac	ctcactcctc	atttagtgtc	atggcttttt	tcttttttt	21780
tttttttt	ttgagacaaa	gcctcactct	gtcacccagg	ctggactgca	gtggtgcaat	21840
ctcagctcac	tgcaggctct	gcctcccaga	ttcaagcaat	tctcctgcct	cagcctcaca	21,900
agtagatggg	actacaggca	catggcacca	tgcccagcta	attttttgtg	tagtttttag	21960
tagagacagg	gtttcactat	gttggccagg	ctggtctcga	actcctgagc	tcaagtgatc	22020
cccctcctt	ggcctcccaa	agtgctggga	ttacaggcgt	gagccctgct	cccagactcc	22080
tggctttttt	tttttttt	aatgaaaaat	tcaaaatgct	ctttttttt	tttttttt	22140
tttgagacag	agtctcgctc	tgtcgcccag	gctgaagtgc	agtggtgtga	tctcggctca	22200
ctgcaacctc	tgcctcccag	gttgaagtga	ttctcctgcc	tcagcctctc	gaacagctga	22260
gattacaggt	acgcgccacc	acgcctggct	aatttttgta	tttttaatag	agatggggtt	22320
ttgtcatgtt	gtccaggcta	gccttgaact	cctcgcctcg	tgtgatccac	ctgccttggc	22380
ctcccaaagt	gctaggatta	taggcgtgag	tcgctgcacc	tggccacaga	aattttttga	22440
agaagataaa	taaggtgaca	tttttaaggg	tcaaagaaaa	tgtcaaaaac	tagaatgatg	22500
tctttacata	gggtttaaaa	ctttccaaat	taacagggaa	aataattctt	taccttgaaa	22560
ataaatgttt	gctagtgaaa	gcaaatacaa	tctttttact	aaatgtttta	ttaaattttt	22620
ttttcttgta	gacacagggt	cctactgtat	tacccaggct	ggtcttgaat	gcctggcctc	22680
aagcaatcct	cctacctcag	tcttccaaag	tgctgggact	acagacatga	gccatcacac	22740
tgggtctttt	ttaccaaatt	atagtagaaa	gcacttttc	tctaatggtg	aactatgaga	22800

gaattaatca	ggggctatta	gtaattcatc	cctgaattaa	tcagtgatta	taatgctttg	22860
tggtccatgt	agtttgctgg	ggattaacac	accatgaaag	tctaccagga	gattttttt	22920
tttctttgag	aacaggggcc	ataatcagta	gtccttaaat	gaaatggact	attcccattt	22980
cattatatgt	tgcctaggct	ggactcgagc	tccttggctt	aagtgatctt	cccacttcag	23040
actctcaagc	agctgggact	ataggtgtgt	gccaccatac	ctggcttaat	tgagtgtttg	23100
ttttttgttt	ttttttctga	gacagagtct	cgttgtgtcg	cccaggctag	agtgcagtgg	23160
cacaatctcg	gctcactgca	acctctgttt	cccaggttca	aacgattctc	ctgcctcagc	23220
ctcccaagta	gctgggatta	caggcgcctg	ccaccatgcc	tggctaattt	ttgtattttt	23280
agtagagatg	gggtttcacc	atcttggcca	ggctgatctc	gaactcttga	cctcatgatc	23340
cacacacctt	ggcctcccaa	agtgctggga	ttataggcgt	gagccaccgc	gcccggcttt	23400
aattgagatt	tttagatatc	tattactctg	ctaattttgt	cacttgcaag	ttgccatcag	23460
äaaattgtag	gaaaatggat	atatttgttc	cttggaatgg	tttgtgtgag	aatacttaag	23520
gattaaatag	ataagtaaaa	ctggtgggct	ttatataaca	tagatgagca	aatgtcagga	23580
acatacaact	gtgcacacag	ttcaggagaa	ggaggattta	agttaatcaa	caaatttact	23640
aagtataata	aagatactaa	aagtagtgtt	tccataccac	tttattactt	aaagtatcat	23700
catataccct	attttatatg	atttttgcca	caagtcagag	ttaggtaaaa	gaaatacttg	23760
cttttcaggt	aaggagtttg	acgcccagac	agattaactg	acttttccaa	aatcatattg	23820
ctattaaatg	gtggaacaag	gacttaaatc	tttgccttct	aactcacata	cttgcaaaca	23880
catatcctct	cactctaccc	caagctaccc	atgttttgac	ccttcttgtg	gcaatctggg	23940
tctcactaat	atttgaaaga	aaacgtacag	tagataattt	gcaagttaat	ctgttacgca	24000
tatctcttac	ctctatttaa	agatgaatat	cagcatttct	gttgtttcta	cagtaacata	24060
ctaaaaaata	atgcagtcca	ggtgcagtgg	ctcacacgtg	taatcctagc	acttttggaa	24120
gttgaggcag	gaggatcact	tgaagccagg	agttcgagac	tagcctgggt	atgcaagacc	24180
ccatttctgt	tttttttt	tgtttgtttt	gttttgtttt	gttttgtttt	tttgagacgg	24240
agtctcgctc	tgtcgcccag	gctggagtgc	agtggcggga	tctcggctca	ctgcaagctc	24300
cgcctcccgg	gttcacgcca	ttctcctgcc	tcagcctccc	aagtagctgg	gactacaggc	24360
gcccgccact	acgcccggct	aattttttgt	atttttagta	gagacggggt	ttcaccgttt	24420
tagccgggat	ggtctcgatc	tcctgacctc	gtgatcccca	tttcttttc	actgcaacct	24480
ttgcctccca	ggttcaagtg	attgtcgtgc	ctcagcctcc	caagtagctt	gggattacag	24540

gcatgtgcca	ccatgcctgg	ctaatttttg	tattttttgg	tagagatgga	gtttctggcc	24600
aagctggcca	ggctggtctc	gaacgcctag	cctcaagtga	tctaccctcc	ttagcctccc	24660
aaagtgctgg	gattacaggt	gtgagccact	gtgcccggcc	ccatttctac	aacaattaaa	24720
aaatattagc	ccagtgtagt	ggtgcatgtc	tctagtccca	gctactcaga	aggctgaagt	24780
gaaaggattg	cttgagccca	gaatttcaag	gctacagtga	gctatgataa	tggcattgca	24840
ctccagcttg	ggtgacagag	tgagaccctg	tctctaaaaa	atgaagtaaa	atagtgcaca	24900
agtatagaac	ttgaaaatct	tccttaacct	taccataagg	gaaatgatta	ctaataagtt	24960
tcttaacttt	ttgtacttac	ataaacataa	atattcatca	gagaaaaaaa	tatgcaaaac	25020
aatttgcaat	ctttttcact	taccatattt	tggaatttt	ttcatttcaa	tatatttgat	25080
cttccttgtg	ttttttcagt	ttgtttgttt	ttgtcaccca	ggttggagtg	aagtggtaag	25140
aacatggctt	attgcagcct	caatctcctg	ctcccattca	gcccctcaag	tagctgggac	25200
tacaggtaca	tgtcaccacg	cccggctaat	ttttatttt	attttggtag	agatggggtt	25260
tcaccatgtt	gcccaggctg	atcttgaatt	cctgggctca	agtgacccgc	ccacctcagc	25320
ctcccgaagt	gttgagagaa	caggtgtgaa	ccaccatgct	ccacctctta	gtctttacaa	25380
tctgcaaaac	ctcataagtg	gctaatagag	gaatatagta	aagcaaaggg	ggatatcact	25440
gattagaact	gtgtttttag	gctgggtgcg	gtggctcacg	cctgtaatcg	caacattttg	25500
ggaggctaag	tgggagtatc	acttgagccc	gggagttcaa	gaccagcctg	ggcaatatag	25560
tgagagaccc	tgtctttaga	aaaaaattaa	ccaggtgtgg	tggtgcacac	ctgtggtccc	25620
agctattcaa	gaggctgagg	tgggagaatc	gcttaagcct	aggaggcgga	ggttgcagtg	25680
agatcatacc	actgctctct	agcatgggtg	acagagcgag	acccagtcta	aaaaaaaaag	25740
tattttttcg	tttttttcca	actcatgtac	acccgccacc	ccacccctgc	tttttttt	25800
tctgacattg	ggtcttgctc	tgtcacccag	gctagagtgc	agtagcacaa	tcaactcact	25860
gcagcctcct	cttcctggac	tcaagcagtc	ctaccacctc	agcctcccaa	gtagctggga	25920
ccacaggtgt	gcaccatcat	gcctggctaa	tttttgtact	ttttgtagag	atagggtttc	25980
accatgtggt	tcaccatctc	taactcctgg	gctcagtcag	tccacttttg	cctcggcatg	26040
agccactgtg	tgcagcccac	gttttttatt	aatggatatt	tggattgttt	ccatctattg	26100
tgaataatgt	ggctatgaac	attggtctaa	atatctgttt	aagtcccggc	tttcaatact	26160
tttggatata	tacctaggag	tagaattact	gaattatatg	gtaactttct	gtttaaattt	26220

ttgaactgcc	aacctgtttt	ccataggggc	tgcaccattt	tgcattccca	ccagcagtgt	26280
acaagggttc	cagtttctcc	acatttgtta	tttttcattt	tttaaaataa	tagtcatcct	26340
aaagggtatg	aagtggtatc	tcgttgtgat	tttgatttgc	atgtatttt	ctaatgactt	26400
atgatgctca	gcattttgtc	atgtacttat	gtaccatttg	tgtatcttct	ttggaaaaat	26460
gtctattaat	gttcttttcc	cattttttaa	ttgggttgtt	tttatgttta	tcaattttgt	26520
aaacatttta	agctctgcag	cataactact	caaccctgtc	acatggtaag	attgacccag	26580
taaaacttta	tgtacaaaaa	taggcagctt	actagattta	atcttagtcc	atagtttgct	26640
aaggcatgca	ttagataatg	tagttacact	attggctaat	aatttaaact	acaagtggtt	26700
gtaagtttct	gccacccaaa	ttctttcttg	atttgatgta	gtctggttgg	ttgaatttga	26760
gtgttatatg	gggtcataga	gttaaaagag	aaatgtctat	gagaaactag	ggactgttgg	26820
gagctaatgt	taaaggattt	tggaggcctt	ttgtgcactg	gagaccattg	gaagattgga	26880
ttttctgcta	taaatgtatc	taaaggataa	tcagtgtaag	ttatgggctg	tagtttgcca	26940
acccctacat	taagggattg	aaataatttg	aatatgggtt	tcagttcttg	tatggtctgg	27000
ctcagttctt	tttttttt	tttttttt	ttttttttg	agatggagtc	tcactctgtt	27060
gcccaagctg	cagtgccatg	gcacgatctc	agctcgctgc	aacctccgcc	tcctggcttc	27120
aagtgattct	cctgcctcag	cctccagagt	agctaggact	acaggcacgt	gccaccacat	27180
ctggctaatt	tttttttt	tcaagacaga	gtttcgctct	tgtcacccag	cctggagtgc	27240
aatggcacga	tcttggctca	ccgcagcctc	cgcctcctgg	gttcaagtga	ttctcctgcc	27300
tcagcctccc	aaatagctga	ggcaacaggc	gtgcgccacc	acgcctagct	aatttttctg	27360
tttttagtag	agatggggtt	tcaccatctt	ggccaggctg	gtctcgaact	cctgatctca	27420
tgatccaccc	gcctcagcct	cccaaagtgc	tgggattaca	ggcgtgagcc	acctcacctg	27480
gcgtttttt	gtgtgtgttt	tcagtagaga	tggggcttca	ctgtattagc	cagaatggtc	27540
ttgatctcct	gacctcgtga	ttcacctgcc	tcagcctccc	aaagtgctgg	aattataggc	27600
atgagccacc	acgcctggct	gtggctcagt	tcttaactgt	tcattcattc	agggtcccag	27660
ccaaaatctt	ttgccacagc	ttctcctggg	catgctctga	aattcatttt	ttgtctgttt	27720
agttgcatga	gtccactgaa	agctttgctt	attttctcca	ccactttcag	agttcacagt	27780
cacttcaagt	agacgaggtc	aggagatcga	gaccatcctg	gccaacatgg	tgaaaccccg	27840
tctctactaa	aaatacaaaa	cttagctggg	cgtggtagcg	tgtgcctgta	gtcccagcta	27900
ctcaggaggc	tgaggcagga	aaattgcttg	aacccgagag	gcagaggttg	cagtaagccg	27960

agatcatacc	atttcactcc	agcctgggcg	acagagtgag	acactgtcaa	aaaaaaaaa	28020
aaaaaaaaaa	aggaaagaaa	agtgctccaa	atgctgggct	catctctgct	ggcttctctc	28080
ctttttatat	ttcgataatt	tttaaaataa	taaccatcct	aatgggcttg	atatggtccc	28140
tcctttctaa	attttggtaa	ttttcattgt	tttggaaact	cactaatccc	ttcaaacaga	28200
tgtttttaaa	acttttttc	tagttctctc	tcttttttt	tttttttt	tttttgagac	28260
agggtctctc	tcagtggtgc	gacctccctt	actgcaacct	ctccctcctg	ggttcaagca	28320
gcgattctcc	tgcctcagcc	tcccaaatag	ctgggagtac	aggcacccac	ccccacgccc	28380
agctaatgtt	tgtattttta	gtagagattg	ggtttcatca	tgttggccag	gctggtctcg	28440
aactcctgac	cccaggtgat	ccgcctgcct	cagccttcca	aagtgctggg	attacagcca	28500
tgagccaccg	cacctggctc	tagttctctt	ctaatcttac	tatagtaatc	aaaattttag	28560
tgctgatgtt	ataatccaag	cccaaatgga	tattcttata	cattaaatgt	tggaatatca	28620
tgtttgttaa	aaatcagatc	tgctgggcac	ggtggctcaa	tgcctgttat	cccagcactt	28680
tgggaggccg	aggcaggtgg	atcccctgag	atcaggagtt	cgagaccagc	ctgaccaaca	28740
tggagaaact	ccgtctctac	taaaaataca	aaattagccg	ggcgtggtgg	cacgtgcctt	28800
tcatcccagc	tacttgggag	gctgaggcag	aagaattgct	tgaacctgtg	aggcggaggt	28860
tccagggagc	tgagatcgtg	ccattgtact	ccagcctggg	caacaagagc	gaaattccat	28920
ctcaaaaaaa	aaaaatcaga	tctgtcccta	tggttttatc	ttcactgcat	gtcatatata	28980
aatggaagca	tgtagtatgt	agccttttgt	gtctcgcttc	tctccctttg	cataatattt	29040
ttgagattta	tcccttttcc	tacatatgtc	agtagtttgt	ttctttttaa	tgctgaatag	29100
tattccacgt	gtggagatac	cacaatttgt	tactccattc	actaaatgat	ttgggttgtt	29160
tcctgttttt	gttattgttg	ttgttgttgt	ttaattaatt	aattaatttt	ttttttgaga	29220
tggagtcttg	ctctgttgcc	caggctagag	tgcagtggcg	caatcacagc	tcactgcaac	29280
ctctgcctcc	ccggttcaag	tgattctcct	gcctcagcct	cccaagtagc	tgtgattaca	29340
ggtgcccgcc	accacaacca	gctaattttt	gtatttttag	tagagatggg	atttcaccat	29400
gttggccagg	ctggtcttga	actcttccct	ccttggtctc	ccaaaatgct	gggattacag	29460
gtgtgagcca	ccatgcccat	cctcctgttt	ttaaatttta	tgaataaagg	tactgtaaat	29520
tcatgtacag	gtcttagaag	tttgcatttt	tcttgggtaa	atatgtagaa	gaagagattg	29580
ttgactcatg	tggtaaatat	atgtttaatg	tcataagaaa	ctaccaaact	gtttttccaa	29640

ctgggtgcca	ttttgtttcc	taccagcaaa	cataatgaaa	ggtccattac	cctttgtctc	29700
gtaatatttt	ggtattttta	tgttcttttg	tttttttgcc	attcaaaatt	gggtgcattg	29760
					gcatcttttt	29820
ttgtatcttt	ggattttaat	ttgtacttcc	ctaacaacta	atgatgtgga		
atacgcttac	ttgccaatta	tgtcttaatt	ctttggcaat	acttatattt	gactctgcct	29880
actatatata	tatatatata	tatttttatg	ctatatatag	agtatatata	tttttatact	29940
atatatattt	atatatacta	tatatattta	tatatactat	atatatatat	atatatatat	30000
atatttttt	ttttttttga	gatgaagtca	tgctctgttg	accaggctgg	atgcagtggc	30060
atgatcttgg	cttaccgcaa	cctcaacctc	tgcctcccag	gttcaagtga	ttctcctgcc	30120
tcagcttcct	gagtagctgg	gactacagac	acatgccacc	atgcccggct	aatttttgta	30180
tttttagtag	aggtggagtt	tcgccatgtt	gtccaggctg	gtcttcaact	cctgacctca	30240
ggtgatccac	ccgcttcagc	ctcccaaaag	tgctgggatt	acaggcatga	cccaccgtgc	30300
ccagctggaa	taagcaatct	taaaaagcag	tttgttgatt	tctggtgaat	agagaaaatg	30360
tgacaaacta	tgactcaata	gtttcatttc	ttttttgttt	gtttgtttgt	ttttttgaga	30420
cagagtcttg	ctctgtcacc	caggctggcg	tgcagtggct	cactgcaagc	tctgcttcct	30480
gggttcacgc	cattctcctg	cctcagcctc	cggagtagct	gggactacag	gcgcccgcca	30540
ccatgcctgg	ctaatttgtt	ttttgtattt	ttagtagaga	cagggtttca	ctgtgttagc	30600
caggatggtc	tcgatctcct	gacctcgtga	tccacccgtc	teggeeteee	aaagtgctgg	30660
gattacaggc	atgagccacc	gcccctggcc	tacttttatt	tcttaagcat	atatcttaaa	30720
gaaactgcag	gtatgcatta	ggggacaggt	agaaaaatgt	tacagcattg	tttgaaatgt	30780
tgaaaaactg	gaaacaacct	caatatctta	ataatagaaa	aaatggttga	ggctggctgt	30840
ggtggttcat	gcctgtaatc	ctagcacttt	tggaggctga	ggcgggcgga	tcacctgagg	30900
tcgggagttt	gagtccagcc	tggccaacat	ggtgaaaccc	cgtctctact	aaaaatacaa	30960
aaaattaggc	aggtgtggtg	gtgcacacct	gtaatcccag	ctacttggga	ggctgaggca	31020
caagaatcac	ttgagcctgg	gaaatggagg	ttgtagtgag	ccgagatcat	gcctactgca	31080
ctccagcctg	ggcaatagag	tgagactccg	tctcaaaaaa	aaaaaaaaa	aaaaaaaggg	31140
aaggagcatg	ggaatgggaa	gaggcactaa	aaaaggaact	tcttttgtat	ctgttacatt	31200
gtactcattt	tgtttttaaa	attttaagcc	aaatatgaca	ttgttatcac	ttttgttgcc	31260
actcagaata	caagtgctat	tacactattt	tctataattt	tccctttttc	aaactaaaaa	31320
acaaaaatac	atgtaaacag	gtgttttctt	tatggaaaac	aggaaggtga	gcatccaaat	31380

aattttagtt	aatttataac	aaactcttaa	taatttcttt	ttcttcttct	tcttttttt	31440
ttttttttt	tgagtcaggg	tcttgctctt	ttgctcaggt	tagagtgcaa	tggtacaatc	31500
tggtacaatc	acatcttagt	gcaacttcta	cctcttcagc	tcaagtgacc	tctctcctca	31560
gtcccccaag	tagatgggac	cacagatgtg	tatccccaat	catggttaat	ttttaaattt	31620
tttggtagag	ataaaatctc	accatgttgc	ccaagctggg	cttgagctcc	tgggctcaag	31680
cagtcctcct	gccttggcct	cccaaagtgc	tgggattata	ggcgtgagca	aactgtgccc	31740
agtcttcata	aacttttctt	tacatgtcct	tatcaagtac	tttttgagca	cctactgtca	31800
accagccgta	gtatataata	ctgataattc	tataacataa	gaaattgacc	tgtttaaggg	31860
gatgaatatg	gttagttatt	ttcagggtga	agaaacagaa	gaatcgggga	ggtagtacat	31920
agtcataagg	agacggcatt	tcttagtcac	tttgtgtggt	gtttataata	agacttcatg	31980
tggccaggtg	cggtggctcg	tgagcgcctg	taatcccagc	actttgggag	gccgaggtgg	32040
gaggatcaca	acaaggtcag	gagatcgaga	ctatcctgaa	caacatggtg	aaaccccgtc	32100
tctactaaaa	atacaaaaat	tagctgggtg	tggtggcacg	tgcctgtaac	cccagctact	32160
cgggaggctg	aggcaggaga	atcgcttgaa	ccagggagtc	ggaggttgca	gtgaaccaag	32220
atcgtgccac	tgcactgcag	cctgggctac	agagagagac	tccatctaaa	taaataaata	32280
aataaataaa	taaatagact	tcgtctgttt	catcaagagt	cattgtatta	tattgatttt	32340
gaaatttcaa	ataataataa	ggaatagtat	ggaaattttt	gtttgattaa	atggggacat	32400
gaggccaggt	gtggtcactc	aggcttgtaa	tcccagcact	tcgggagacc	agggcaggag	32460
gattacttga	gcctaggagt	tcaagaccag	cctgggcaac	atggcaagac	cctatctcta	32520
caaaagaaat	acacaaaaat	tagctaagtg	tggtggcaca	tgcctgtagt	cttagctact	32580
cgggaggcca	agggaagagg	atggatcact	tgagcccagg	agttggaggg	tgcagtgagc	32640
taggattgtg	cccctgcact	ctagtgtggg	tgacagcaag	actctgttta	aaaaaaaaa	32700
aaaatgaggc	cgggcgcggt	ggctcacctc	tgtaatctga	gcactttgag	aggccaaggc	32760
gggtggatca	cctgagttca	agatcagcct	ggccaacatg	gtgaaaaccc	cgtctttata	32820
cttaaattac	aaagattagc	tgggtgtgat	ggtgcacacc	tgtaacccca	gctactccag	32880
aggctgagac	agcagaatcg	cttgaacccg	ggaggggag	gttgcaatga	gccgagattg	32940
caccactgca	ctccagccta	ggtgacagag	caagactctg	tctcaaaaaa	aaaagaaaaa	33000
aagtctaaga	agttaatttt	cattcagaca	aatgttcaaa	aataatagaa	ataaaacaaa	33060

aaattaattt	tcaaatatgt	gatttgagta	taacgatcac	tttacagaag	ttattctaca	33120
tactttttga	ttatgctgag	tttttaggtc	cttttaaagc	ttaacttgta	tcaggaatta	33180
atgttttaaa	ctagttgttg	ggttcaaaga	aaatagaaat	gtgttattaa	atgccacact	33240
tgtaatctca	tacagcagtt	ctcatgatgc	aatcaattgt	tạaataaaaa	cttcctctag	33300
agaggaggta	cccagcaatg	aacacattat	atcagatttg	aatatgagat	taaacaatgc	33360
tttttgtttc	attgttattg	aaatcatatt	tgtattttc	aaaagtatat	atacttaaaa	33420
attcctaaat	aaaatgtctt	tctgtaatac	agcattttag	gttataagga	tcaataccat	33480
gggctgataa	gcaaaatagg	actcacggcc	ccaaaatgtt	gataaacatc	atgaccatat	33540
tccccataat	ggagttacat	atacacatta	caatgataaa	aatactaaga	agttatatag	33600
taatgtttct	cagacttgtt	cacaaccctg	ttttttatgt	attacctctc	aaaagcatga	33660
tttgcaatat	ttagtgtact	cttcatacga	tctatacaaa	taattttta	ttttaaagca	33720
ggacagaagg	agcaagctgt	ggaatggtat	aagaaaggta	ttgaagaact	ggaaaaagga	33780
atagctgtta	tagttacagg	acaaggtaag	attgtatttg	tttatagcca	tcccaaatta	33840
tgatatattc	acatgattgt	ccagatttca	gatctattta	tttatttatt	tatttttctt	33900
tctttctttt	cttttctttt	ctttttttt	ttttttttg	agacagggtc	tttcctctgt	33960
tacccaggct	ggagtgcagt	gatgtgatca	tagctcactg	caacctcaaa	cttctgggct	34020
caagtgatcc	tectgeetet	gcttcccatg	tagctgggac	cacaggcgca	cactaccata	34080
cttagctaat.	tattattatt	attattatta	ttattattac	tagtttttga	gacagagtct	34140
cgctcttttg	cccaggctgt	agtgcaatgg	tgcaatctcg	gctcactgca	atctccgcct	34200
cccggattca	ggctatttat	tctcctgcct	gagactcctg	agtagctggg	attacaggtg	34260
catgccaccg	tgcccagcta	atttttgtat	ttttagtgaa	gatggggttt	tgccacgttg	34320
gccaggctgg	tttcgaactc	ctgatctcaa	gtgatctgcc	cacctcagcc	tcccaaagtg	34380
gtgggagtac	aggcatgagc	cactgtgggc	cacacttagc	taattaaaaa	aaatttttt	34440
gtagagacag	ggtctcactg	tgtttctgtg	actgatctta	aacttctggc	ctcaagtgat	34500
cctcctgcct	cagctttcca	aagttgtggg	attacaggca	tgagccactg	tacccagcca	34560
gattgtattt	atcttaataa	atgtatttgg	gccaggcaca	gtggctcatg	cctgtaatcc	34620
cagcactttg	ggaggccgag	gtgggcgaat	cacctgggat	caggagttcg	agaccagcct	34680
gatcaacatg	gagaaaccct	gtctctacta	aaaattcaaa	attagccagg	cgtggtgtcg	34740
cgcacctgta	attgcagcta	cttgggaggc	tgaggcagga	gaattgcttg	gacccaggag	34800

göggaggttg	tggtaagcca	agatcgcgcc	attgcactcc	agcctgggca	acaagagtga	34860
aactctgtct	cagaaagaaa	gaaaagcaaa	acagtatttc	atttaattaa	aaatgccttg	34920
tattatacca	gtaagagtaa	aaaacaattt	aattaaagta	tgatatatgc	tcttttcatc	34980
acttagaatt	tgaattttaa	tcttattgaa	gaggctgttt	tagttttatt	tagatatggt	35040
tataacaaca	atattaatat	ctgtgaccaa	attggtgcat	gcatgggcaa	tgaaaagcta	35100
tgttgtgact	gcagcatggt	ggatagcatt	agtaagttag	cattggttgt	aaaatgaatc	35160
ccaatttcaa	agattttgaa	acgtggggaa	aaaatatttt	agaccccatg	aaataagacc	35220
tgaaatctat	gaaataccac	agtaggttgg	aaatcatcat	gagaaactgt	aactatttt	35280
ttttataggt	attatatgta	ttctttgaga	cagggtctca	ccctgttgcc	caggctggaa	35340
tgctgtgatg	tggtcacctc	tcactgcaac	atccacttcc	tggggctgaa	gtgatccttg	35400
caactcaccc	tcccatgctc	ggctaatttt	tttttttt	tttttaagta	gagaccagat	35460
ctctttatgt	tgcccaggct	ggtcttgaac	tcctgggctc	aagtgattct	gctttgtctg	35520
cccagagtgc	tgggattaca	gaagtgagcc	acaacacctg	gcctaaagat	agtattttta	35580
aaatttcttc	tgttttcttt	cttttgggta	tacattttct	tcttttttt	aaaaaaaaat	35640
ttctgtataa	agactgtgac	tccccatgaa	agtagtttgg	gtgataattt	atcgtgaaac	.35700
aatattagtt	gggaaatgta	gatattttaa	ttaattttt	tctttcaggt	gaacagtgtg	35760
aaagagctag	acgccttcaa	gctaaaatga	tgactaattt	ggttatggcc	aaggaccgct	35820
tacaacttct	aggtatcaat	taatgtataa	tttgatgtgg	gatgtattgg	aaatgtgtgt	35880
tcaatgaaac	tttaatttgt	agaaagaaat	agatcagtga	ttgaaaatgt	ggtccaggct	35940
ttttaacata	aagaaaacgt	ataacatata	caaaaacaga	agagcataat	ggacttcttt	36000
ttttttttga	gatggacgct	tgctctgtca	cccaggctgg	agtgcagtgg	cgtgatcttg	36060
gctcactgca	agctctacct	cccaggttca	cgccattctc	ctgcctcagc	ctcctgagta	36120
gctgggacta	caggcacccg	ccaccacgcc	ccgctaattt	ttttgtagtt	ttagtagaga	36180
cagggtttca	ccatgttagc	cagaatggtg	tccatctcct	gacctcgtga	tccacccgcc	36240
tcggcctccc	gaagtgctgg	agttacaggc	gtgagccaac	gcgcccagcc	gagcataatg	36300
aacttctaat	tattcttctc	tcagctttga	taattatcac	ctcactatca	gtcttgattt	36360
atttatacca	agggctagca	aactgcagct	gatgggccaa	cccagctcac	tgcctattac	36420
tataaataag	gttttattgg	cacacagcca	ttcctttcct	ttaggtattg	tctatggctt	36480

tcatgctacg	gtgacagaat	tgaatagttg	atacagagac	aacactgccc	tcaaaaccta	36540
acatatttac	tgtctggccc	tgagaaagcc	tgccatcttc	acttgacatc	ccacttcact	36600
gtcccccaac	ttcttattat	tttgaaacaa	attattgact	tattttccat	ttataaatat	36660
ttcatattat	acctctaaaa	gataaggatg	tcaaaataaa	atcacagaaa	taccattatc	36,720
acacctaaaa	aataactcca	aatttctttt	aacattatcc	aaaaaaactg	accccccaa	36780
aatgcaattt	ccaaatttct	aattttctca	aaatttaata	atttttacta	ttttttaata	36840
atttgtttgt	atcaggatct	taaaaagatc	cgtatgtctc	ttttaatgta	caggttcatc	36900
tgtttttcat	tttcttccaa	tttatttgtt	gatgaaacca	ggtctttgtc	atgtaatatt	36960
tcctacagtc	tgacttttgc	tgcatgcatc	ttttgtggta	tgttttaaca	tgttcttctt	37020
tcctcccacg	ttaaatgata	gttggatata	gagccttgat	cacattgaaa	gttgattttt	37080
attttttaat	gattagacta	cttcctaggt	ggttgtgttt	gtgtgttcat	cattagttgt	37140
tccatcttgt	gaggttagca	gcagttaact	atgactgatg	tccagtgata	ctttaattct	37200
gtcattcttt	cagcattcat	caactgtaat	agaaactttt	acttgtcttc	tgtttgatgg	37260
cgtaggtttt	aaatatatat	taataagtta	aatctaccac	tcaaaaaaag	tagaacaaaa	37320
cctactacat	atgagtggct	ctaccatacg	ttggtggatg	gaaatagtag	atatttggta	37380
agcaggtaaa	ccttatttat	ttgtagccct	gtgacttggg	gtaagttatt	ttgcatgtct	37440
gggtcttttt	tatctaattt	gtaatatgaa	gctattatta	ttattattat	tattattatt	37500
attattatta	ttattattat	tattcgagat	ggagtcttgc	tttgttgccc	aggctggagt	37560
gcagtggtgc	aatctcggct	caatgcaccc	tccacctcct	gggttcaaac	tattctcgtg	37620
attcagtctc	ccgagtagct	aggattacag	gggcctacca	ccacacctaa	tttttgtatt	37680
tttagtaggg	acggggtttc	accatgttgg	ccaggctggt	ctcaaactcc	tgacatcaag	37740
tgatccatcc	acctcagcct	cccaaagtgc	tgggataggc	cgggcacggt	ggctaacgcc	37800
tgtaatccca	gcactttggg	aggccgaggc	gggtggatca	cgaggtcagg	agattgagac	37860
catcctggct	aacacggtga	aaccccgtct	ctagtaaaaa	aatacaaaaa	actagccagg	37920
tgtggtggcg	ggcacctgta	gtcccagcta	cttgggaggc	tgaggcagga	gaatggcatg	37980
aacccaggag	gcggagcttg	cagtgagccg	agatcatgcc	actgcactcc	aggctgggca	38040
aaagagcgag	actctgtctc	aaaaaaataa	aataaaataa	atagataaat	aataataata	38100
aagtgctggg	attacaggca	tgagccacca	cgcccagctg	aagctaatat	tattagctaa	38160
taataatatc	tcatatttt	gaccattgaa	ttattaaagg	aacctaaacc	atagtagtaa	38220

gtgctttaaa	aatgttggtt	tttatttatc	tgtttacctg	actgtcatca	cctcctttgc	38280
ttaggtagaa	agatatattc	ataaacacat	acatatacat	tttattcatt	ctttaattca	38340
tttactccta	tatggtcatt	gtgtttgtgg	gatttttgcc	cgcacatagt	taaaaatgca	38400
gccgttactg	ctttcagatg	agtaacaagg	tagtgttccc	tggcttctgt	ggctgacagg	38460
atttgccttc	ttcctttcta	aatggaggtt	attactgtgt	cagatataat	taaatagtgt	38520
attaaagttt	gttgcaataa	aataattgat	ggttctaatt	ggtactttct	acgtgtttta	38580
tctttaaagc	ttttcagtgt	atatataaag	tatatatcat	acagaataaa	tttgattgtg	38640
gagcattttg	taacatcttt	caaaattaat	aagagttggt	ttttatgttt	tgtttgatgt	38700
tatgatatag	gacattagaa	gtattaatat	caattagaga	ctcatctttg	aatgtgactt	38760
tgtactttct	tatttgtgtt	agtagaggag	agaacaaaaa	gaagatatgt	aatgtaatat	38820
gaaactaggc	atttaaagat	ttaacgtttt	ggatatttta	aagttggtgt	ctgttttcac	38880
cctcaaaaat	gctattacct	atttatgaaa	tatctttaaa	agtgtggagt	ggtagatggg	38940
aaaggtgaca	tcggctgggc	gcggtggctc	acacctataa	tcccagcact	ttgggaggcc	39000
aaggtgggcg	gatcacctga	ggtcaggagt	tcacgaccag	tctggtaaca	tggtgaaacc	39060
taatctctac	taaaaataca	aaaaattagc	caggctggtg	gtacgcacct	gtaatcccag	39120
ctactcagga	ggctgagtca	ggaggatggc	ttgaacccag	aaaatggagg	ttgcattgag	39180
ccaagatggc	accactgcac	tccagactgg	gtgacagaga	gagactccgt	ctcaaaaaaa	39240
aaaaaacgcc	gggcactgtg	gctcacacct	gtaatcctag	cactttggga	gactgaggcg	39300
agcagatcac	ttgaggtcag	gagttcgaga	ccagctgggt	gcctgggcaa	catagtgaaa	39360
ccccgtctct	actaaaaata	caaaaaaatt	agccgggcgt	agtggcgggc	gcctgtagtc	39420
ccagctactt	gggaggctga	ggaaggagaa	tggcgtgaac	ccgggaggcg	gagcttgcag	39480
tgagccgaga	tcccgccact	gcactccagc	ctgggtgaca	gagcgagact	ccgtctcaaa	39540
aaaaaaaaa	aaaaaaaaa	tagccgggca	tggtggcggg	cacctctaat	ctcacctact	39600
tgggaggttg	aggcatgaga	attgctcgag	cctgggaggc	agaggttgca	gtaagcagag	39660
accacaccac	tgcactctag	cctggatgac	agagtgagac	tttgtctcaa	aacaaaaaca	39720
aacaaaccaa	accacctctt	gtccactcct	aatctccctt	actgtgtttc	acttatttt	39780
ttcccatata	tttgtcacct	tctaataaac	tgtgtaactt	attttttatg	tttattgtgt	39840
actatctgtc	ttctccctgt	tggaatataa	actctatgga	ggagggatcc	ttgtctatat	39900

cccaagtgcc	tacaacagtg	tctagcacat	gctagttacc	gaataaatat	ttgccaagtt	39960
aatgaagttg	tttataaccc	ttggcactat	acctgataca	gtgtagggac	ttaataaatg	40020
aatgttaaat	gaagctatct	taaaaatata	tatatatata	taacagccag	atacgccaat	40080
ttgccgacat	caaaattaat	cttttcatct	attgcaggtt	ttacagttaa	gctttgctct	40140
aaggttcact	atcactaaac	caaaaataaa	taatatggat	ggtcttttcc	catttttaac	40200
agagaggcta	catcctctca	aaccagtcag	tattaggaat	tcccaggatc	attctctcca	40260
ttttccatcc	taattagata	cctatctggc	accacatctc	tgaaaagctc	caatttttaa	40320
ccagcacata	ataaacaaat	atgttactat	taatacacgt	ttgtacacaa	gtcattttta	40380
ttgtcttagg	tatatccact	cccagacctt	ctgagttatt	gaaagacagg	aatttgtgat	40440
gtcacctctt	ttttcttttt	tttgagacgg	agtcttgcct	tatcacccag	gccagagtgc	40500
aatggcgtga	tctcggctca	ctgcaacctc	tgcctcccgg	gttcaagcga	ttatcctgcc	40560
tcatcctcct	gagtagctgg	gattacaggt	ggccctagtt	tgggtttttg	gttttaaaca	40620
ggatggtctc	ctctttgaga	agttgccatg	agttagccat	gatgatacct	gggacaataa	40680
tggtccacag	agaagtaaga	gccaatacaa	cgccttaaga	gaaagtacct	ggtatgtttg	40740
tgaagcagca	aagaggccaa	tgtgttccag	caaggagatt	atagtagaga	tgaagtcaga	40800
gaactcatgc	ggagagggat	tgtcacaaca	cgcagggctg	taaaggccac	catgaggact	40860
tgagctttta	ccgcctgtga	aatggggagc	agttacaaag	atttttaaga	aagcagccca	40920
gtgcagtggc	tcatgcctat	aatcccagct	ctttgggagg	ctgaggtggg	tggatcacct	40980
gaggtcagga	gttcgagacc	agcctggcca	acatggcgaa	accttgtctt	tactaaaaat	41040
agaaaaatta	gctgcgtgtg	gtggccatgc	ttgtaatccc	aaatactcgg	gaggctgagg	41100
cagaagaatc	acttgaaccc	gggaggcgga	ggttgcagtg	agccgaggtt	gcgccactgc	41160
cctccagcct	gggcaacaaa	gcgagactcc	gtctcaaagc	cagaaaaaaa `	gatttttagg	41220
aaaggaatga	aatactctga	cttaaatttt	agaaggatca	ctctggttgc	tatgttgcat	41280
tatagactct	aagggtagaa	ccagggagag	caattaggac	actgttacag	taatctagga	41340
gaaaagtgat	agaggcttgc	accagggtag	tatcaggaga	aatggtaaca	agtggttgga	41400
ttatgattat	agttgaaggt	cgaacaacta	gatttgctga	tagattggat	aaaatggtcc	41460
tctctttatg	gatctcataa	tacagtagga	gaaacagaca	cataaatagt	catcactgca	41520
ggatgggtat	tagaaatatt	ttgcaagggt	gtaaaaggtg	ctaagaaagc	tttcttgtgt	41580
gacaaagctg	gttaaagaaa	gaaaagaaag	cttcctagaa	gtgaaaccta	aaatatacac	41640

ttagataaat	gaataaaagt	tatgaaagaa	tgtgagggct	gggcacagtg	gctcatacct	41700
gtaatcctag	cactttggga	ggttgagtcg	ggggtattgc	ttgagtccag	gagtttgaaa	41760
ccagcctgga	cagcgtactg	agaccccatg	tctaaattta	aaaaaaaaa	aaatagccag	41820
gagtggtgat	gtgcacctgt	agtcctagct	acttacttgg	gaggctgagg	caggaggatt	41880
gcttgagctc	aggaggtcga	gactgcagtg	agccatgagt	acaccactgc	actctagtct	41940
gggtgacaga	gtgagaccct	gtctcaaaga	aaatgaaaag	aaaaagaatt	tgagaaaaga	42000
tatgtcagga	aaatgtgatg	acatgaacaa	atactcaaag	gcaagaaaag	catggtgagt	42060
aggggagggt	acaggttgag	acatgaagtt	gggattgccg	aggcgtaaga	ggtataggca	42120
gatcatggat	ggcctggttt	gtcataggaa	ggagcttggg	ctcttatctg	tgggcaatgg	42180
gaagccacta	aagggtttta	agtagaagag	tgttatatgg	taaggttttc	ctctccagta	42240
gatcactcag	atgactgtgg	gggttggatg	tgaggaggta	aagcagcaaa	gttactgctt	42300
taatttaaat	cattgattaa	tctgtacaat	cctagtcatt	ccaaaaagaa	acattagtcc	42360
tttaacagaa	gtgaattggg	tctgggcgcg	gtggctcacg	cctgtaatcc	cagtactttg	42420
ggaggccgag	gcgggcagat	cacctgaggt	caggagtttg	agacaagtct	ggccaacatg	42480
gcaaaacctt	gtatctacta	aaattacaaa	aattagctgg	gcatgggggc	acccacctgt	42540
aatcccagct	attcgggagg	ctgaggcagg	agactctctt	gaacccataa	ggcagaggtt	42600
gcaatgagct	gaggtcgcac	cactgcgctc	cagcctgggc	gacagagtga	gactccgtct	42660
ccaaaaaaaa	gaaaaaatat	tggagcagtt	tcacagatgc	tgtttactgt	tatactgtat	42720
gtgtctatga	ctcctcctcc	aagaaaaaaa	aaatgaattg	gagcaggttc	acagaagcaa	42780
tgtactgtta	cactgtatgt	gtctgtttct	acacatataa	atctgaattc	tgtgtacacg	42840
aaaagaaatc	ctatagcttt.	ttattcctag	ctataaaaac	taagaatata	atttctttct	42900
ttttattaca	taatgaatgg	ttctgttaac	tttttgttaa	aatttcattg	aggggagtat	42960
taattcacat	ttatgtacgg	atgtctacat	ttacaaatca	gtgtatttt	tgatttatgc	43020
ttttactgag	acaaagggtt	tctgtctcag	catggtcatt	taaagagttt	atcattgaga	43080
aaaatcagat	gaccaacctg	ttagctcaaa	aaaaaaaaaa	cctccaaggt	atattgtatc	43140
agccagttct	aggatacaaa	agccatgcag	tactttgtgt	tttgtgccaa	aaagggtagc	43200
tgctatttga	cctgtcccaa	aggcatgtgt	ggttgtaccg	taaaccaagc	atggtacctg	43260
tttgtcaaac	tttagaaatg	aaagtttaag	agagttaata	tataggtgct	gcatttttta	43320

tgtattcatt	gacttgctgg	tacagaagaa	aagaatcaat	tatgattcag	cacaatactc	43380
cacttgggga	agagagtgca	gcagtagttt	agagtgtcag	ggatcaaact	gctaccttct	43440
tgggcttcag	ttgctagact	taagagaccc	agatcttggg	aggggttttt	gttgttattt	43500
gatgtggggg	taaggttgaa	atactccctt	ttaattgatt	aatataaaaa	ataggtaatg	43560
tagacgtatg	tcacaaaatt	ttaacaagtt	tgagtgtgaa	aagcatccat	cccattctat	43620
gccctggcta	cccatttccc	ctccctagag	gcggctgtta	ttatcagttt	ctctgggtcc	43680
tttttagagg	taatcttttt	gtatgcaact	gtgcacatgt	atgtttacac	aaatggtagg	43740
gtattgtata	tatatacagt	tactgcagta	tgcttatttg	actttgcttt	attgctttta	43800
ttttctgcct	gacatatgtt	aatgtggcca	aatagggcat	ttcccagaca	atccttatag	43860
tttcattctg	tgctacttta	aatgctgttc	tccttccctg	aaatgtcctt	ttttttttc	43920
ttttcttttt	tttttttga	gacagagtct	cgctctgtca	cccaggctgg	agtgcagtgg	43980
cacaatctca	gctcactgca	acctccacct	ccccggttta	agccattccc	ctgcctcagc	44040
ttcccgagta	gttgggacta	caggcgcgtg	ccaccacgcc	cggatacttt	tttgtttgtt	44100
tgttttagta	gagacagggt	ttcactgtgt	tagccaggat	cgcctcaatc	tcctgacctc	44160
ctgatctgcc	tgcctcagcc	tcccaaagtg	ctgggattac	agacgtgagc	cactgcgcct	44220
ggċtgtcctt	tcttttaatc	ttttcaaatt	ctagccagtt	catagcccac	ttgctctgta	44280
aagctttttc	agtgatcttt	cttttgtacc	atgcagtctt	ttaaaaaatc	tacagtttta	44340
ttataagttg	ctaattatat	ttaataaata	cctaaatggt	agaaattgat	tcatttttta	44400
atctccgtag	tgccaggaac	tgtggctcat	gtctgtaatc	cctgcacttt	gggaggctaa	44460
ggcgggagga	tcgcttaagg	ccaggagctt	gagcccagcc	tgtggaacat	attgagaccc	44520
cgtctctaca	aaaaataaat	tagctgggca	tagtggtgtc	tgtatgtagt	gtcaactact	44580
caggagactg	aggcagaagg	ataacttgag	ctcagggagt	tgaggccaca	gtgagccatg	44640
atggtgccac	tgtacttcag	cctgggtgac	agagcaagac	caagaccgat	aattatctcc	44700
atggtatttg	ttttggacgt	attagatatt	cagtaaatat	tttctggtga	tgatagtgat	44760
atctaactac	ctcaggttac	ctaacctgaa	taaggcctat	ttttaacata	gccattcact	44820
tgttaatttc	tgttattttc	gtgacttcat	ttttactaat	tatattttaa	aagataattt	44880
tatataaatg	caaaaacttt	ttatcatgta	acaatctggt	aacaccttga	gtaatttgtc	44940
atttcacatg	cacattttat	ttgttcatta	tctttttct	ttttgtttat	tttttctgtt	45000
ttttaccttc	tctgttgcat	agagaagatg	caaccagttt	tgccattttc	caagtcacaa	45060

acggacgtct	ataatgacag	tactaacttg	gcatgccgca	atggacatct	ccagtcaggt	45120
gggtttaggt	taactaacat	aaaataataa	agcttgcatg	caaagtaaga	gtcttactta	45180
acctgataat	gttgatttga	ttttataatg	gtaggtttaa	ttgttcatgt	tttcacaggg	45240
ctgtgttgaa	aatatagtac	ctttatcatc	atagtatata	aacatgcaac	aagtcaggta	45300
tagtcattct	aaacttgctt	tatttgcata	ttttgcaacc	tctggttttt	cagattataa	45360
aatatgaagg	tatacattcc	cgtaagtgat	taaaataatc	ttttttctg	ttgtggcttt	45420
tgtgttttta	tatggatagc	tatactgatt	tttttcatga	aatagtgttt	tctaagacac	45480
attttaattt	tttatgtatc	aatttttatt	gcatatcaat	tttcatttat	agtatatgtg	45540
aatgtcttat	agtacttgat	agaagaaatt	tgaaacttca	catagtgagg	agaaacatta	45600
cagtattatt	tgctatggat	taactctatc	cttcataaac	ttttggatat	caacttctac	45660
agaagattaa	atgtctttct	gttttgtttt	ctttgggtag	gggactctcc	atttcttagg	45720
ttctctgaca	tctgagctag	ctttttgttt	aattaaaact	tttttttag	ttgacagata	45780
atgtacctgt	tcatggggta	cacagtgatg	ttttgataca	tatagtatat	ggtgattaga	45840
tcaaggtaat	tatcatttcc	atcatcccaa	acatttatca	ttccttgtgt	tggaaacatt	45900
cagtatttc	cttctagcat	ttgaaatgat	ataatatatt	atattgttac	ctataatcat	45960
cctgcagtga	tgtagaacaa	tggagcttac	tctttctatc	tagctatacc	tttgtatcct	46020
ttccctaccc	ttttcagcct	ctagtatcct	ctgttctact	ttttatttct	atgagattaa	46080
ctttttaaaa	ataatattct	gtgtgtatat	ataccacatt	ttctttattc	attcgtctgt	46140
tcttggacac	ctaggttgat	tctgtatctt	ggctgttgtg	aatagtgctg	cagtaaacat	46200
ggggtgtaga	tgtctgttcg	atatgatgat	tttctttcct	ttggataaat	tcccaatagt	46260
gggattggtg	ggtcatatgg	tagttctgtt	tgtagttttt	gaggaacctc	catactcttc	46320
tccatagtag	ctgtactagt	ttagattccc	aaaagtagcg	tataagagtt	cactttctac	46380
acatcctcac	cagcatttgg	tactttttt	gtctttttga	taatagccat	cctaactggg	46440
gtaagatacc	ttgttgtggt	tttgatttgc	atttccctca	taattaacga	tgttgagcat	46500
tttttcatat	ctttgttttt	gacggtccag	ctagttttat	tggttacttt	tttttttt	46560
ttttagcaat	agtttcatgt	gcagggctca	aattatattt	aatattactt	ttttcaaatt	46620
ataccagaac	aaccttaggt	taggctataa	aacaactgcc	ttctttttct	tttggcataa	46680
taattatata	tatatttta	attacacttt	acgttctagg	gtgcatgtgc	acaacatgca	46740

ggtttgttac	atatgtatac	aagtgccatg	ttggtgtgcc	gcacccatta	acttgtcatt	46800
tacattaggt	atatctccta	atgctacccc	tcccctctcc	cctcacccca	cgacaggccc	46860
cattgtgtga	tgttccccac	cctgtgtcca	agtgttctca	ttgttcagtt	cccatctgtg	46920
agtgagaaca	tacggtgttt	ggttttctgt	ccttgcgata	gtttgctcag	aatgatggtt	46980
tccagcttca	tccatgtccc	tacaaaggac	atgaactcat	cctttttgat	ggctgcttag	47040
tattccatgg	tgtatatgtg	ccatattttc	ttagtccagt	ctatcattga	tggacatttg	47100
cattgattcc	aagtctttgc	tattgtgaat	agtgccacag	taaacataca	tgtgcatgtg	47160
tctttatagc	agcatgattt	ataatccttt	gggtatatac	ccagtaatgg	gatggctggg	47220
tcaaatggta	tttctagttc	tagatccttg	aggaatcgcc	acactgtctt	ccacaatggt	47280
tgaactagtt	tacgttccca	tcaacagtgt	aaaagtgttc	ctgtttctcc	acatcctctc	47340
cagcacctgt	tgtttcctga	gtttttaatg	atcgccattc	taactggtgt	gagacggtat	47400
ctcattgtgg	ttttgatttg	catttctctg	atggccagtg	atgatgagca	ttttttcatg	47460
tgtcttttgg	ctgcataaat	gtcttcttt	gagaagcatc	tgttcatata	ctttgcccac	47520
tttttgatgg	ggttgtttga	tttttttctt	gtaaattttt	ttaagttctt	tgtagattct	47580
ggatatcagc	cctttgtcag	atgggtagat	tgcaaaaatt	ttctcccatt	ctataggttg	47640
cctgttcact	ctgatggtag	tttcttttgc	tgtgcagaaa	ctctttagtt	taattagatc	47700
ccatttgtca	attttggctt	ttgttgccat	tgcttttggt	gttttaggca	tgaagtcctt	47760
gcccatgcca	gtgcccatgc	cagtgtcctg	aatggtattg	cctagatttt	cttctagggt	47820
ttttatagtt	ttagaactaa	catttaagtc	tttaatccat	cttgaattaa	tttttgtata	47880
aggtgtaagg	aagggatcca	gtttcagctt	tgtacgtttg	gctagccagt	tttcccagca	47940
ccatttatta	aataggaaat	cctttcccca	tttattgttt	ttgtcaggtt	tgtcaaagat	48000
cacatggttg.	tagatgtgtg	gtattatttc	tgagggctct	gttctgttcc	attggtctat	48060
atctctgttt	tggtatcagt	accatgctgt	tttgattact	gtaccttcgt	agtatagttt	48120
gaagtcaggt	agcacgatgc	ctccagcttt	gttcttttgg	cttaggattg	tcttggcaat	48180
gcaggctctt	ttttggttcc	atatgaactt	taaagtagtt	ttttccaatt	ctgtgaagaa	48240
agtcatttgt	agcttgatgg	ggatggcatt	gaatctataa	attaccttgg	gcagtgtggc	48300
cattttcatg	atattgattc	ttcctatcca	taagcatgga	atgttcttcc	atttgtctgt	48360
gtcctctttt	atttcattga	gcagtggttt	gtagttctcc	ttgaagaggt	ccttcacatc	48420
ccttgtaagt	tggattccta	ggtattttat	tctctttgaa	gcaattgtga	atgggagttc	48480

actcatgatt	tggctgtttg	tctgttattg	gtgtatagga	atgcttgtga	tttttgcaca	48540
ttgattttgt	atcctgagac	tttgctgaag	ttgcttatca	gcttaaggag	attttgggct	48600
gagatgatgg	ggttttctaa	atatacaatc	atgtcatctc	caaacaggga	caatttgact	48660
ttcttttcct	aattggatac	cctttatttc	tttctcctgc	ctgattgccc	tggccagaac	48720
ttccaacact	atgttgaaca	ggagtggtga	gagagggcat	ccctgtcttg	tgctagcttt	48780
caaagggaat	gcttccagtt	tttgcccatt	cagtatgata	ttggctgtgg	gtttgtcata	48840
aatagctctt	attattttga	gatacatccc	atcaatacct	agtttattga	gagtttttag	48900
catgaagggc	tgttgaattt	tgtcaaaggc	cttttctgca	tctattgaga	taatcatgtg	48960
gtttttgtct	ttggttctgt	ttatatgatg	gattacgttt	attgatttgc	atatgttgaa	49020
ccagccttgc	atcccaggga	tgaagccaac	ttgattgcgt	tggataagct	ttttgatgtg	49080
ctgctggatt	cggtttgcca	gtattttatt	gaggattttt	gcgttgatgt	tcatcaggga	49140
tattggtcta	aaattctctt	tgttgtgtct	ctgccaggct	ttggtatcag	gatgatgctg	49200
gcctcataaa	atgagttagg	gaggattccc	tctttttcta	ttgattggaa	tcatttcaga	49260
aggaatggta	ccagctcctc	tttgtacctc	tggtagaatt	cagctgtgaa	tccatctggt	49320
cctggacttt	ttttggttag	taggctatta	attattgcct	caatttcaga	gcctgttatt	49380
ggtctattca	gggattcagc	ttcttcctgg	tttagccttg	ggaggctgta	tgtgtccagg	49440
gatttatcca	tttcttctag	attttctagt	ttatttgagt	agaggtgttt	atagtattct	49500
ctgatggtag	tttgcatttc	tgtggaatcg	gtggtgatat	cccctttatc	atttcttatt	49560
gcatctattt	gattcttctc	tcttttcttc	tttattagtc	ttggtagcag	tctatcagtt	49620
ttgttgatct	tttcaaaaaa	ccagctcctg	gattcattga	ttttttgaaa	ggttttttgt	49680
gtctctatct	ccttcatttc	tgctctgatc	ttagttattt	cttgccttct	gctagctttt	49740
gaaggtgttt	gctcttgctt	ctctagttct	tttaatggtg	atgttagggt	gtcaatttta	49800
gatctttcct	gttttctctt	gtgggcattt	agtgctataa	atttccctct	acacactact	49860
ttaaatgtgt	cccaaagatt	ctgatatgtt	gtgtctttgt	tctcgttggt	ttcaaagaac	49920
atctttattt	ctgccttcat	tttcttatat	acccagtagt	cattcaggag	caggttgttc	49980
agtttccatg	tagttgtgtg	gttttgcgtg	agtttcttaa	tcctgagttc	tagtttgatt	50040
gcactgtggc	ctgagagaca	gtttgttgta	atttctgttc	ttttacattt	gctgaggagt	50100
gctttagttc	caactatgtg	gtcaattttg	gaataggtgt	ggtgtggtgc	tgagaagaat	50160

gtatattctg	ttgatttggg	gtttagagtt	ctgtagatgt	ctattaggtc	cacttggtgc	50220
agagctgagt	tcagttcctg	gatctgtctt	gttgatctgt	ctaatattga	cagtggggtg	50280
ttgaagtctc	ccagtattat	tgtgtgggag	tctaagtctc	tttgtaggtc	tctagggact	50340
tgctttatga	atctgggtgc	tcctgtattg	ggtgcatata	tatttaggat	agttagctct	50400
tcttgttgaa	ttgatccctt	tagcattata	tgatggcctt	ctttgtctct	tttgatcttt	50460
gttggtttaa	agtctgtttt	atcagagagt	tggattgcaa	accctgcttt	ttttgttttc	50520
catttgcttg	gtagatcttc	ctccatccct	ttattttgag	cctatgtgtg	tctctgcacg	50580
tgagatgggt	ttcctgaata	cagcacactg	atgggtcttg	actcgttatc	caatttgcca	50640
gtctgtgtct	tttaattgga	gcatttagcc	catttccatt	taaggttaat	attgttatgt	50700
ttgaatttga	tcctgtcatt	atgatgttag	ctggttattt	tgctcgttag	ttgatgcagt	50760
ttcttcctag	cctcgatggt	ctttacaatt	tggcatgttt	ttgcagtggc	ttgtaccggt	50820
tgttcatttc	catgttcagt	gcttccttca	ggagctcctg	taagcaggcc	tggtagttac	50880
aaaatctgtc	agcatttgct	·tgtctttaaa	ggattttatt	tctccttcac	ttatgaagct	50940
tagtttggct	ggatatgaaa	ctctgggttg	aaaattcttt	cctttaagaa	tgttgaatat	51000
tggcccccac	tctcttctgg	tttttagagt	ttctgccaag	agatcagctg	ttagtctgat	51060
gggcttccct	ttgtgggtaa	cccgaccttt	ctctctggct	gcccttaaca	ttttttccta	51120
catttcaact	ttggtgaatc	tgacaattat	gtgtcttgga	gttgctcttc	ttgagtagta	51180
tctttgtggc	attctctgta	tttcctgaat	ttgaatgttg	gcctgccttg	ctaggttggg	51240
gaacttctcc	tggataatat	cctgcagagt	gttttccaac	ttggttccat	tctccccgtc	51300
actttcaggt	acacccgtca	gacatagatt	tggtcttttc	acatagtcct	atatttcttg	51360
gaggttctgt	tcgtttcctt	ttactctttt	ttctctaaac	ttctcttctg	gcttcatttc	51420
attcatttga	tcttcaatca	ctgataccct	ttcttccact	tgatcgaatc	ggctactgaa	51480
gctcatgcat	gcatcacgta	gttttcgtgc	catggttttc	agctccatca	ggccatttaa	51540
ggtcttctcc	atgctgttta	ttctagttag	ccatttgtct	aatcttttt	caaggttttt	51600
agcttctttg	caatggtttc	gaacatcctc	ctttagctcg	gagaactttg	ttattaccca	51660
tcgtctgagg	cctacttctg	tcagcttgtc	aaagtctttc	tctgtctagc	tttgttccgt	51720
tgctggtgag	gagctgtgtt	cctttggagg	agaagaggcg	ctctgaattt	tagaattttc	51780
agcttttctg	ctctggtttc	tccccatctt	tgtggcttta	tctacctttg	gtctttgatg	51840
atggtgacgt	acagatgggg	ttttggtgtg	gatgtccttt	ctgtttgtta	attttccttc	51900

taacactcag	gaccctcagc	tgcaggtctg	ttggagtttg	ctggaggtcc	actccagacc	51960
ctgtttgcct	gggtatcacc	agcggaggct	gcagaacagc	aaatgttgca	gaacgacaaa	52020
tgttgctgtc	tgatccttcc	tctggaacct	tcgtctgaca	ggggtaccca	ggtatatgag	52080
gcgtcagtca	gcccgtatgg	ggaggtgtct	cccagttagg	ctacttgggg	atcagggacc	52140
cacttgagga	ggcagtctgt	ccgttcgccg	atctcaaact	ccatgctggg	agaactacta	52200
ctctctttag	agctgtcaga	cagggacctt	taagtctgta	gaagttactg	ctgccttttg	52260
ttcagctatc	ccatgtcccc	agaggtggag	tctacagagg	cagtcaggcc	tccttgagct	52320
gtggtggact	ccacccagtt	caagcttcct	agctgctttg	tttacccact	caagcctcag	52380
caatggcaga	tgcccccgcc	tccagcctct	ttgccgcctt	gcagttcgat	ctcagactgc	52440
tgtgctagca	gtgagcgagg	ttccgttggc	atgggaccct	ctgagccagg	catgggatat	52500
aatctcctgg	tgtgccgttt	gctaagacca	ttggaaaagc	ccagtattag	ggtgggagtc	52560
tccctatttt	ccaggtacca	tatgtcacgg	cttcccttgg	ctaggagagg	gaattcccca	52620
accccttgcg	cttcccaggt	gaggcaatac	cccgcccttc	agctcacact	atgtgggctg	52680
cacccactgt	ctgacaatcc	ccagtgagat	gaacccagtt.	cctcagttgg	aaatgcagaa	52740
atcagctgtc	ttctgtgtcg	ctcacactgg	gagctgcaga	ctggagctgt	tcctatttgg	52800
ccatcttgga	accctgcctt	cttcattcat	atgtaataca	aaacttctaa	ggttttagtg	52860
gagaagagat	agagtaaaag	gatttctata	gacagaagaa	acagttggtc	atcaactctt	52920
tcccttgtgg	cttcacatct	cccctaagga	cttcttatgt	tggtttggtc	ttacagtata	52980
gtcagtggca	gtttccctct	tcccattcct	tcctctgtct	gatttaaaat	gctgtttcaa	53040
gtatcgatat	aagtattttg	cctgtttctt	ttagcgtggc	tgtgaagggc	tgacattttc	53100
agaaggcact	tactgaaaaa	aaaaaacaa	agaaatgtaa	gagtccatca	catataaata	53160
gttaagtttc	taaaatatgt	atttgagatc	ccagtaattc	tactaggata	aatagcaaaa	53220
attctccagc	cctgaagagt	tggtctgtct	ttcctttcct	tgttatcttg	attctctttt	53280
atttcatttc	acatgctaga	ccccatcatg	ttttcctgct	gcattcccca	ctccaccctc	53340
caaagcaatg	ttctcttcct	gcaacctgtt	tgaaaaaatt	gaactttgtc	ttatttcata	53400
tccctagtac	aagttgaata	tccctaatat	gaaatctgaa	atccaaaatg	ctctaaaatt	53460
cgactctttt	ttttttgaga	tgaagtcttc	ctctgtcact	caggctggag	tgcggtggcg	53520
caatcttggc	tcactgcaac	ctccgcagcc	tcccctaacc	ccatccctgt	gggttcaagc	53580

gattctccca	cttcatcctc	ccaagtagct	gggactacag	gcacctgcca	ccacacccaa	53640
ctaattttt	gtatttttag	tagagatgag	gtttcaccat	gttggtcaag	ctagtctgag	53700
actcctgacc	ttaagtgatc	cacctgccct	ggcctcccaa	agtgttggga	ttacagtcat	53760
gagccactgt	gcctagccaa	atatccaaaa	ctttttgagc	gctgacatga	tgctcaaagg	53820
aaatactgga	gtattttgca	ttttggattt	ttgggttaag	gatgctgaac	cagtaagtat	53880
aatgtaaaca	ttgcaaaatg	caaaaaaatg	taaaaaccct	aagcagttct	ggtcccaagc	53940
atttcgcata	agggatactc	aacccataat	cttttcttt	ctgttttctg	gttggaaggg	54000
catattggct	ttatagctaa	tttacacagc	attgatgttt	aatacacagt	gagtccaagt	54060
agatcactca	gacctattag	tagtttatta	gtgtcactca	cttctggaac	attctgtgat	54120
gttttacttg	gatgagttct	ttcacctctc	ttgggaaata	gtcataccaa	agtctgctta	54180
ttactacaat	gtgttatcta	ttatacattg	tccaattttc	tactcaaaat	tactagacag	54240
gcaaagaaaa	agtaaagtat	aacccttact	caagaaaaaa	aagcaatcag	tagaaactgt	54300
gagtgggccc	agatattgga	tttagcagac	aaagacttca	aagcagctat	tataatatgt	54360
ttaaagaatt	gaaagaaaat	atggtatcag	ttaaacagga	aatctaagta	gatgatataa	54420
actagacaat	aaaaataata	ttctaaagtt	gaaaagtgta	gttactgaaa	ttaaaaattt	54480
acagacaaca	gcctcaacag	cagattagag	atagcaaaag	aaagattcag	tgactttgaa	54540
tgcaggtctg	tagaaattac	taaattgatg	actctcacgt	agcaactttc	acccgtagtt	54600
tggtttcata	tacaatgctt	taactctttt	tgctattttt	tctcttactt	tctgtgatgg	54660
aaacattttg	tgctttgatt	ttaatgggtg	tatcacagtt	atatacatct	ttacaaactc	54720
atcaaattgt	atactttatt	tatatattta	ttttttttg	agatagggtc	tgactctttc	54780
tcccaggctg	gagtacagct	gaaattagtt	gggactacag	gtgggcacca	ctgtgccagc	54840
taatttttgt	attttttgta	gagatggggt	ttccccatgt	tggccagtct	ggtctcaaac	54900
tcctgggctc	aatcatttct	gccgcctcag	actcccagag	tgttgggatt	ataggtgtga	54960
gctactgtgc	ctggctggta	tagctttttt	ttttttttt	ttttttttg	tgacagagtc	55020
tcactctgtc	gcccagggtg	gagtgcagtg	gcgcgatctg	ggctcactgc	aacctctgcc	55080
tcccgggttc	aacccattct	cctgcctcag	cctcctgagt	agctgggact	acagatgcgt	55140
gccaccatac	ccagctgatt	tttgtattct	tagtagaaac	agagtttcac	catgttggcc	55200
aggatgatct	cgatctcctg	acctcgatcc	acctgccttg	gcctcccaca	gtgctggcat	55260
tacaggcctg	agccaccatg	cctggctgtt	ggtatacttt	aaatggatgt	aattcattgc	55320

agattatacc	tcagtaaatt	tttatttagt	ttttgagact	gagttgctct	gttgcccagg	55380
ctggagtgca	gtggcacgat	ttcagctcac	tgcaacctct	gcctcctggg	tttaagcgat	55440
tttcctgtct	cagcctcccc	ggtagctgga	attagaggtg	tgtgccacca	tgatcagatt .	55500
atttttgtgt	ttttagtaaa	gatggggttt	caccatgttg	gccaggctgg	tctcgaactc	55560
ctgacttcag	gtgatccacc	cgcctcggcc	tctcaaagtg	ctgggattac	aggtgtgagc	55620
caccacgcct	ggccttaatt	tttaaatact	gtaaggctta	taaagaaaag	aatattcccc	55680
ttctgtttct	ttcctctcac	gtagcaacct	tcacccctag	tttggtttca	tatacagtgt	55740
tttaactctt	tttgctattt	ttttctctta	ctttctacta	tatttccaaa	tacaatgctt	55800
ctataatgat	tcctttttt	tttctatcag	tttttgataa	tcattgactc	cttatggtca	55860
aagaagactt	aattcccttc	ťgtcactctt	catatattaa	tataactaat	atatatattg	55920
tttagttttg	atataactaa	aaataactat	atgtatatat	aactatatat	gtataagcta	55980
tctgtatata	gttatatatg	tatatgcaca	tacatatata	gttacatatg	tatacacaca	56040
tacatatata	gttacatatg	tatatgcata	tacatatata	gttacatatc	tatatgcata	56100
tacatatata	gttacatatg	tatatgcata	cacatatata	gttacatatg	tatatgcata	56160
tacatatata	gttacatatg	tatatgtata	tgtatataca	tatatagtta	tatatgtatt	56220
agttatatca	aaataactat	gtatatatag	ctgtaaatgt	atatataaac	tatatgtata	56280
cagttatata	tgtatttgta	tatgtgtgta	tacatatata	gtttttttg	tttttttt	56340
ttgtttttt	tgttttttt	tggagatgga	gtcttgccct	gtcccccagg	ctggaatgca	56400
gtggtgctat	cttggcttac	cgcaacctct	gcttcccagg	ttcaagcaat	tctcctgctt	56460
cagtctcccg	agtacctggg	attacaggca	cgtggcacca	cgccaggcta	attttttgta	56520
tctttagtag	aaatggggtt	tcaccatgtt	ggccaggctg	ttctcaaact	cctgacctcg	56580
tgatccaccc	gcctcggcct	cccaaagtgc	tgggattaca	ggcgtgagca	ccgcgcctgg	56640
tccctataca	tatatagtta	tatataccta	tagttatttt	tagttatatc	aaaataacta	56700
tatgtatatg	taactatata	tatagtatat	atagtatata	tatactatat	agtgtgtata	56760
tatagtatat	atatactata	tagtgtgtat	atatagtata	tatatagtgt	atatatcgta	56820
tatacactat	atactatata	gtgtatatat	agtatatgta	gtatatatag	tatatatagg	56880
atagtatata	tagtatatat	agtgtatata	tactgtatat	ataggtgtac	atagtatact	56940
atatagtata	catatagtac	actgtatagt	atatatagta	tagtatatat	agtatacata	57000

gtatactata	tatagtatag	tatacatagt	atactatata	gtatatagag	tatatataca	57060
		_		-	•	
gtatactata	tagtatatag	agtatatata	cagtatacta	tatcgtgtgt	atagagtata	57120
tatacagtat	actatatcgt	gtgtatagag	tatatataca	gtatactata	tcgtgtgtat	57180
agagtatata	tacagtatac	tatatcgtgt	gtatagagta	tatatacagt	atactatatc	57240
gtgtgtatag	agtatatata	cagtatacta	tatcgtgtgt	atagagtata	tatacagtat	57300
actatatcgt	gtgtatagag	tatatataca	gtatactata	tagtgtgtat	agagtatata	57360
tacagtatac	tatatagtgt	gtatagagta	tatatacagt	atactatata	gtgtgtatag	57420
agtatatata	cagtatacta	tatagtgtgt	atagcgtata	tatacagtat	actatatagt	57480
gtgtatagcg	tatatataca	gtatactata	tagtgtgtat	agcgtatata	tacagtatac	57540
tgtatagtgt	gtatagcgta	tatatacagt	atactgtata	gtgtgtatag	cgtatatata	57600
gtatactgta	tagcgtatag	agtatatata	tagtatactg	tatagtgtat	agagtatata	57660
tatagtatac	tgtatagtat	atagagtata	tatagttaca	tatacatata	gttattttta	57720
gtaatatcaa	aaaaccatag	ctaagatttt	tatgatttag	caaaatattg	tttaccccaa	57780
agccacgtat	tatatattaa	tgatatttt	tcccttttga	gtttttcttc	cccacaggtt	57840
ttctgatctt	tttttttgtt	ctctaacttt	atattatagg	tatatactct	tttctctgtt	57900
taatttgctt	tttaactaga	agacctcctt	tagtagttct	tttagtgaat	atctgtggtt	57960
aaactcttag	tctttccagt	gtctgaaata	ccctcatttt	aatgtgacag	gtcacttttc	58020
tcacctcaac	attttggaca	tacctcattt	ccaacaaaca	tttgttactt	ctgatagaga	58080
gtctgctgtc	attctcatac	ttgttccttg	tggaaatgtc	tatatataaa	gtctcagaac	58140
tatatatttt	taatatatat	acatatttt	atttatttaa	aaatgtataa	ttaagttagt	58200
agtagtagta	gtagtagtag	tagtagtagt	agtagtagtt	tttttttt	tagatggagc	58260
ctccatctcc	cgggttcaag	tgattctcct	gcctcagcct	cctgagtagc	tgggattaca	58320
ggcacacacc	accatgcctg	gctaattttt	gtattttgag	tggagatggg	gtttcaccat	58380
gttggccagg	ctgatcttaa	actcctgacc	tcagatggac	cacctgcttt	ggcctcccaa	58440
agcgctagga	ttacaggcat	gaaccactgc	gtctggcctt	aagttattat	tgactattga	58500
tgccctgttg	ctctatcaag	tagtaggtct	tatttattct	agaacctcgt	tttaaggtat	58560
cctgaatgtg	gcttttttt	tttttttcc	taagacggag	tctcactctg	ttgcccaggc	58620
tggagtgcaa	tggagtgatc	ttggctcacc	gcaatctctg	cctccttggt	tcaagcaatt	58680
ctcctgcctc	agcctcctga	gtagctgaga	ttacaggcgc	acgccaccac	acctggctaa	58740

tttttgtgtt	tttagtagag	acggggtttc	accacattgg	tcaggcttgt	ctcaaactcc	58800
tgaccttgtg	atccgcccac	cttggcctcc	gaaagttctg	ggattacagg	cgtaagccac	58860
cacgcccagc	ctaatgtgga	ttttgtttt	ttttttaact	tgaattttat	ttatacttcc	58920
tgattttata	atagttaact	tgtagtaaaa	gtaaactggt	tgtctaaata	aataagctga	58980
tttcctatac	tagtttagag	tctttagttt	tcttaaaccg	tattaagaga	tttgattaca	59040
aaagtaaaat	tgaggctttt	gtctttttt	ttggccactc	taatttgctg	actgacttaa	59100
catttgtctt	cacagtaaac	attgtaaata	aacactgatg	tttgttgcgt	agtatgtaaa	59160
aatattatt	aggagtggtg	agatttaaac	atttacaaac	ctgtaatata	tatagtacag	59220
caacactgga	caaataacct	tttcaactta	atcagaggtg	ttctataaat	gttcatttgc	59280
atatatacag	cccatataat	acttagcata	tgtaaaagca	catctttata	ctctttcaat	59340
taaaattgat	tattattatt	atttttttt	tgagacagag	tccctctcag	tcacccaggc	59400
tggattgcag	tggtgtgatc	agggctcact	gcaatcgggt	agctggaact	acagggatgt	59460
gccaccacgc	ccagctattt	ttgtatttt	agtggagatg	gggtttcacc	atgttggcca	59520
ggctggtctt	gaactccata	cctcaggtga	tctgcccgcc	tcagcctccc	aaatagctgg	59580
gataacaggc	gtgagctact	gcacccggcc	taaaattgat	tagtttttaa	gaccctcttg	59640
gtgggaacag	actttcatag	tgtttatagt	tataatagtt	tggaatcaaa	gtagtcgagt	59700
gctacttttt	tttcctctgt	acatcctatc	cctaatgcct	ttactatatt	ttgtttctta	59760
tttgagagct	ttatttgctt	cataactttt	tttttttt	ttttttttg	agacagagtt	59820
tcactctgtc	acccaggctg	gagtgcagta	gtgcaatctc	ggcttactgc	aacctccgcc	59880
tcctgagttc	aagtgattct	cctgcctcag	cctccgaagt	agctgggatt	ataggccccc	59940
accaccacgt	ctgactgatt	ttttgtattt	ttagcagaga	cgaggtttca	ccatgttggc	60000
cagcctggtc	ttgaactact	gacatcaggt	gatccgtcca	cctcgatctc	ccaaagtgct	60060
gggattacag	gtgtgagcca	tcgcgcccgg	cgcttcataa	cctttttata	ttgtctttct	60120
gttccccaaa	atgaagtagt	ttcttcttaa	aaatactgtt	ttttgttttt	ttgtttttt	60180
ttttatttga	gatggaatct	ctctctgtcg	ccaggctgga	gtgcagtggc	acgatctcgg	60240
ctcacttcaa	cctctgactc	cgtggttcaa	gcaattctcc	tgcctcagcc	tcccaggtag	60300
ctgggattac	aggcacaaat	actgttttta	ataagaaaat	tagaataggg	acaggcacaa	60360
tggctcactc	ttgtaatccc	agcactttgg	gaggccaagg	tgggaggatt	gcctgagccc	60420

aggagttcga	gaccagccta	ggcaacatag	tgagtgagac	cctgtttcta	taaaaaaaat	60480
ttttaattag	tccggtctgg	tggtgcacaa	ctgatgtccc	agctacttgg	gagtttgagg	60540
tgggaggatg	gatcacttga	gcccaggaag	attaaggcca	caatgagctg	tgatcatgcc	60600
actgcactcc	agcccaggcc	acaggtttca	aaaaaagaga	aaattagaat	tatacgttag	60660
ggggaaaaaa	cctaataacc	atattcctat	ctacctagtg	accaccccta	tgaagatcct	60720
ggtacatgtt	ctcattgaaa	tcttattttg	aaatattttt	gaattaaaaa	aatatattat	60780
taccttggtt	ttacaaatgt	ttgcttgtct	ttatgttcag	ctacaatttť	ctaatcacaa	60840
tggttttact	ttttccttgt	cagaaagtgg	agctgttcca	aaaagaaaag	accccttaac	60900
acacactagt	aattcactgc	ctcgttcaaa	aacagttatg	aaaactggat	ctgcaggcct	60960
ttcaggccac	catagagcac	ctagttacag	tggtttatcc	atggtttctg	gagtgaaaca	61020
gggatctggt	cctgctccta	ccactcataa	ggtattctgg	gacagtaact	ttaattgctg	61080
tctttttgca	aatagaaaaa	tttttaagat	actattcctg	cttaagttga	tcataagtac	61140
tttataatac	tttagagaat	ggataagttt	ccataaagtt	aaattttttt	tttttttt	61200
tgagactctt	gttttccagg	ctggagtgca	atggcgcgat	ctcggctcat	tgcaacctcc	61260
gcctcccagg	ttcaagcgat	tctcctgcct	cagcctccca	agtagctggg	attacaggca	61320
tgcaccacca	cgtcgagcta	attttgtatt	tttagtagag	acggggtttc	tccatgttgg	61380
tcaggctggt	ctcaaactcc	cgacctcagg	tgatccgcct	gcctcagcct	cccaaagtac	61440
tgggattaca	ggcgtgagcc	accgtgccca	aagttaattt	ttttttaaat	ccacagggca	61500
acttgctata	aaacttttt	tggacctcat	tagacattta	ataccaagtt	ttgcttaccc	61560
agtctgtttt	atataatgct	gtatatttca	ttttaaattt	atttttaaaa	ttatttcaat	61620
ctttgtaaat	gttttatacc	agtaacatac	ctagagtttt	gtcatgattc	taacaagggt	61680
taaaatttgt	ttttattttg	taaaaactaa	atctctggat	aaaatcctct	ataactgact	61740
taatgccaaa	tatagttctc	tagtgaatac	agttttacct	tcaggtaaat	aaatatacaa	61800
tttatggatt	tttataccct	ttttcctatt	tttaaagctt	gaattctgtg	aactttaagg	61860
ttaacttatt	tatgaaaagt	gtaaatgtta	ggttgtatit	tcatattaaa	attttgtatc	61920
ctttaagggt	actccgaaaa	caaataggac	aaataaacct	tctaccccta	caactgctac	61980
tcgtaagaaa	aaagacttga	agaattttag	gaatgtggac	agcaaccttg	ctaaccttat	62040
aatgaatgaa	attgtggaca	agtaagtttt	gccatctaaa	tgttttattt	tatagttttt	62100
atattttaat	tttacttata	aaacatgtca	ggagtgaaat	agataataaa	taccttgtct	62160

ggtttacata	cttaattttt	atgatagttt	tcaattataa	atgtagaaaa	ccattgcttt	62220
actgatttaa	ctatagttta	acagttaaca	ttaaaaataa	ctatatgtca	tagggcttag	62280
gcttcatctt	gtaataactg	ggccctgttt	gtatcgtaga	actaactgag	gtcttgtttc	62340
ttagtggaac	agctgttaaa	tttgatgata	tagctggtca	agacttggca	aaacaagcat	62400
tgcaagaaat	tgttattctt	ccttctctga	ggcctgaggt	aagaacttta	tattatcatt	62460
tttctataat	accatctgtt	actgaatcca	tagtagtagt	agtagtaaag	aaatatttga	62520
gctatactaa	aataattaat	tcatataagg	taacaataga	tttaatgttt	taaaaaagat	62580
aaaacattaa	caattgatgt	tgagaagtta	ttatagaata	ggaaaatgga	tatgagttcc	62640
taatttccaa	tccttttata	tttttaggaa	aagtgggtag	tatgatataa	ttttgttttg	62700
ttttggagac	ggagtctcac	tcattgtgtc	gcccaggctg	gagtgcagtg	gcatgatctt	62760
agctcactgc	aacctctgcg	tcccagaatt	caagtgattc	tcctgcctca	gcctcccaag	62820
tagctgggat	tacaggcatg	tgccactatg	cccagctaat	ttttgtaatt	ttagtagaga	62880
tggggttttg	ctatattggc	caggctggtc	tttcatacct	gatgtcaagt	tatccaccca	62940
tttcggcctc	ccagagtgtt	aggattacaa	gțgtgagtca	ctacatctgg	ccaaattttg	63000
atatcaaggt	gagagagatt	taaaattaag	ataaggtaca	aaaattagcc	tagtgtgggg	63060
gcgcacgctt	gtagtcccaa	ctactgggga	ggctgtggca	ggagaattgc	ttgaaccagg	63120
aggcagaggt	tgcagtgagc	caagatggca	ccactgcact	ccatcctggg	tgacagagcg	63180
agatgtcatc	tcaaaaacaa	aacaggccgg	gtacggtagt	tcacgcctgt	aatcccagca	63240
ctttgggagg	ctgaggcggg	cagatcacga	ggtcaagaga	ttgagaccat	cctggctaat	63300
atggtgaaac	cctgtcttta	ctaaaattac	aaaaattagc	tgggcttggt	ggtgtgtaac	63360
cccagctact	cgggatgctg	aggcaggaga	atcgcttgaa	cccgggaggc	ggaggttgca	63420
gtgagccgag	atcacgccac	tgcactccag	cctggcgaca	gagcgagact	ccgtctcaaa	63480
aaaataaata	aaaatttaaa	aagataaata	cataaaaata	aataaataat	attaagagaa	63540
ggaaatcagg	caggtagtgg	cccctgacac	aatgagtttt	cccagaattg	gattgcttgg	63600
aaatgccgct	caaagagtgt	ggtaaactcc	atcgaaggct	aaataccaac	gtgacagtga	63660
taataaacaa	gtactttatg	ggaaagtttt	ttttttaatt	atttttaaaa	agagagaaat	63720
tgtactggag	aaaagaggaa	ttcaggtaga	ataattcttt	ttttttttt	ttttgagatg	63780
gaattttgct	cctgttaccc	aggctggagt	gcagtggctt	gatgttggct	cactgcaacc	63840

tctgcctttg	gggttcaagt	gattctcatg	cctcatcctc	ctgagtagct	gggtctatag	63900
gcatgcaccc	caacacctgg	ctaatttttg	tgtttttagt	agagataggg	ttttaccatt	63960
ttggccaggc	tggtctcaaa	ctcctggctt	cagatgatcc	gcccaccttg	gcttcccaaa	64020
gtgctgggat	tacaggcaga	ggccactgtg	cctggcatga	agaacaattt	ttaaaagaat	64080
gacttttaag	gatattaagt	catcaaagta	gatagagcca	ttaaatgatg	ggtagaaacc	64140
taatcttcca	tcccatattt	tatgacttat	taaggaagat	aggcaatctt	gcagttgata	64200
ataaatattt	ggctttccat	acttagcacc	gttttgaatt	tttccagttc	acagatggta	64260
tatttagtgc	tgttccaata	atattgcaaa	aaataaatct	gaagactcac	ttctgggtca	64320
cagttatttc	actattaaca	ttaaaatctt	acggacctac	ctgcaacatg	tagtggaaat	64380
aagttgtgtg	gcacgttgtg	gtgggtgcat	tattaaataa	atgtgcaaag	gttttatggc	64440
tgtctcaatt	tttccatagt	cttgagtcat	tcacatactg	cctttatggt	gtttatcact	64500
tgtaagtgag	taccaactgt	actagaactt	actgaatatt	tttcaagtct	attttactta	64560
ttactcattc	taagtacata	aaatcactgg	tctgatatgc	aagttaggtt	ttcgctaata	64620
cccagtaaaa	taattagata	attattaaaa	tagaaagcat	ttgtcattat	gtgaactgga	64680
tttatgtcat	gtaccacctc	aggtcacact	ttgggaaacg	tagcttacgt	attgagctaa	64740
cattttgctg	gagttatata	agattagtaa	atgctataga	ctaaatattg	aaaaaaaagc	64800
ttgcttaaag	aggatttaca	taattgtaga	cctgaaaagg	atcttagcag	tcttctgatc	64860
gattcattga	taaagaaact	agtcctaaga	gctaaaatga	cttgctcaag	attttagtta	64920
agtggtagac	ctaggaaata	cctttctaag	attagagctg	cctggttagt	gctatagctg	64980
ccacctaatt	cttacattta	tttattaagg	gacatgcttt	ttacggtaga	aaaatatatc	65040
taaaattgtg	aaggtaatac	caaggaaata	tttaggctat	gcaagaaaag	tcattcagct	65100
tttgctttac	ccaggcctat	agagaacata	tctaaaataa	taagtaacat	gtgaatttga	65160
atttaggcat	attttcatgg	tagtgacata	atgtgcaatt	aagaagctat	aataatgtaa	65220
aaatgccagt	tgcaagttat	ttcaaataaa	gttgaataac	ctgacctcag	gaggggcaga	65280
aaccttagta	aacttagcaa	actgagacct	aaggaagagc	aagatctgtg	gtagagccag	65340
gtctaaaggt	ttatatcctg	gtacaaactt	gtctatacat	caccacacct	gccaaatgga	65400
acttttttc	cttgtagttc	agatttccaa	gaaagggaat	attattgtcc	tagctcagcg	65460
tttcacaata	gactcacaaa	atgaatcttg	ttaagcctat	gaatgggtaa	gacttatccc	65520
ataacacgcc	tctattgtgt	aaaaaaatca	gctttattcc	taattccctg	tagtaggaag	65580

				•		
cttgcataga	ccacaataga	gacattgtta	gattatatca	agaaggtgag	tggcaggcat	65640
tcttgagtat	actggaattt	ttatttcatt	gtagaaacac	agaatcataa	ttagtcatct	65700
aaaactggtt	ttaaggagat	aatactaaag	atactcactt	gaggtagatt	gttctcagaa	65760
ttacttaaaa	taagtgcttt	aaatcttgct	cattcatgaa	gccatagccc	tggaaggaga	65820
tattgaaaaa	cttctccatc	ttccttcaat	cccataggac	catgttttta	attgtagttt	65880
aacattaaac	ataatttttg	aaagtagcca	atattaatct	ttgacaaaaa	actcaaacta	65940
aatagcagaa	aatagaacat	gccctctcct	ctcgcccaaa	agtaagacta	cattttaaag	66000
tatatcacag	tgatctgtct	aaatatttt	ctcaaatatt	ttactaagaa	agcgtatatt	66060
cttctgtcct	tatttcatag	atctcttctg	tatcctgtgc	agcttgtcta	tcatttcgag	66120
cttttatatt	tcttattttg	ttctcttgct	gcttaaatgt	gattctttga	gatttataga	66180
agaatgtgat	tgttctccag	ttttaaaaag	ctcttctcta	tctactaaaa	tttccatgaa	66240
tttctttctt	tcttttttt	tttttgattg	agacagtctc	gctgtgttct	ccagcgtggc	66300
cttaggctta	agtgatcctc	ctgtctcagc	ctcccaagta	gctgagatta	cagaaatttc	66360
catgaatttc	caaatatgat	gttatctttc	atataagctt	aaacataagc	ctttcttctt	66420
tcaaaaatgt	tagaacttac	ctctttaaat	aatcttataa	agccatttct	taatttttgt	66480
taccttttcg	aatctattaa	cttgcatatc	atagtaaatg	aacccttagc	tccatcatac	66540
cacacacctt	ctactcctgt	cctcccactt	tttctcaccc	aggctggagt	acagtgaata	66600
tttagtgctt	ttaaatatta	ttcattacca	agccaagtag	cgtactattt	tttccttgta	66660
cagccttttt	ttcccctaaa	taattgtgtt	attttttcat	ttgcttcatt	ttcatcttat	66720
cgattgataa	ttcttctgtt	ccatttcagt	ctaatttcca	catggccaaa	ccaatctaaa	66780
aacctgttaa	ctcaggtctt	ttttttttt	ttttttccca	gaataccttt	tcctggaacc	66840
accttcttct	tttcattcga	gaccaaatgc	tttccatgcc	tgtgtcaaag	tggttgttct	66900
ctaatctgtc	ttcactacca	tcataatttc	cttttccttt	tttcctttct	ttattatgta	66960
tctcctgtct	tttaaattcc	atattttcca	ctttcatgat	ttattttctc	attttgatgg	67020
ctacatcttt	cagtaactga	gaaaaggttg	tgtgagggaa	tattttgaga	tgctgtagtt	67080
ttgaaaatat	ctttattctg	ctgtcttctc	attaataatt	tgactggatg	tcaagattta	67140
agttggaaac	tattttccat	gagtattttg	aaggcattat	ctattgtctt	ctagcttcca	67200
gtgctgcttt	gtattagaga	cagaagatca	ggaatcagga	tagcattgga	cttcttattt	67260

ctatttccca	aagctttttg	gatcttctct	ťtattcttat	cttctgatat	tttataatga	67320
tatgcttgat	gcatttactt	tttcttttct	tcttccctct	tgtacatttc	tttcttttt	67380
taggtggggg	caggggggaa	ggagtctcac	tcttctcacc	caggctagag	tgcagtggtg	67440
caacctcagc	tcactgcaac	ctccacctct	ggggttcaag	cgattctcct	gcctcagcct	67500
cccgagtagc	tgggattaca	ggcatctgcc	accacgccca	gctaattttt	gtatttttag	67560
tagagacggg	gtttcaggct	ggtcttgaac	tcctgacctc	aggtgatccg	ccctcctcag	67620
cctcccaaag	tgctgggatt	agaggcatga	gccactgcgc	ccagcccctc	ttggaccttt	67680
ctagatattc	atccttcaat	tctgagaaag	gttctataat	tctttaattt	aaaaaaagtt	67740
tttttgtttc	atctttctca	ctttttttt	tttttttt	ttttaagaca	cagtcttgct	67800
ctgtcaccca	ggctggagtg	cagtggtgcg	atctcagctc	actgcgccct	tcgcctcctg	67860
ggttcgagtg	attctcctgc	ctcagcctcc	caagcagctg	ggattacagg	tgcccaccac	67920
caccatgccc	ggctaattgt	tgtattttta	gtagagacgg	agtttcacca	tgttggccag	67980
gctggtttca	aactcctgac	ctcaggtgat	ccacctgctt	tggcctccca	gagtgctggg	68040
attacaggca	tgagccaccg	tgcccagccc	tattctgatt	tcatagatgc	agtgtctttt	68100
atgtctctga	gaggttttgt	caagttttct	tttgtttact	ttattatctg	tttcttcaag	68160
attcctcctc	ttttctttt	gccttaagct	ttttcatatt	ggaagcttct	ctcaaatgtc	68220
tggttattct	ggttgtccac	ttatattacg	tggaacaata	aaaaagttga	ttaggactct	68280
gtgctgtaag	taagtaaatt	gttgatagtg ,	agagcccatt	aatcacagga	tgatcaagca	68340
gcaagcctac	tgtttatttg	ggtttctcca	aatggctata	gctgtcagtc	ttttttttct	68400
ggggttattt	ggcttctcta	gaaaagaatt	ttctagtctc	ttgtttggag	aatacaagct	68460
tgactattgg	tgttccagaa	aatgggtggg	aggagacgac	tttgttttct	gttaggttga	68520
gccatgtgaa	attactaggt	tttgttttgt	tttctgtttt	gttttgagac	agagtctcac	68580
tctgttgccc	aggctggagt	gccttagcat	gatcttggct	cactgcaacc	tctgcctccc	68640
aggttcaagc	aattctcatg	cctcagcctc	ccaagtagct	gggattatag	gcatgcacca	68700
ccacgcctgg	ctaatttttg	tatttttagt	agagacgggg	ttttgccatg	ttgaccagtc	68760
tagtctcgaa	ctcctgacct	caggtgatcc	acctgccttg	gcctcccaaa	gtgctgggat	68820
tacaggtatg	agccaccaca	cctgggctga	aattactgtt	tttataggtc	aaaaacagtt	68880
gagggatagg	catggtggct	cccacctata	atcccagcac	tttcagaggc	caaggcagga	68940
agattgcttg	agtccaggag	ttcgacacca	gcctgggcaa	tgtagtgaaa	ccccatctat	69000

atttaaaaaa	aaaaaataga	tgaatatctt	tgtttgcaga	taacatgatt	gcatatgtag	69060
aaaatcccaa	agaaccaaca	aaaagagctc	ctagaactaa	taagtgatta	tgacaaggtg	69120
tagaatacaa	agttaatata	caaagtcaca	ttgcttttt	atctaccagc	agtgaacaac	69180
tggaatttga	aattaaaaca	caatactgct	gggtgcagtg	gctcacacct	gtaatcccag	69240
cactttggga	ggccgaggtg	ggcagatcac	ctgatgtcag	gggttcaaga	ccagcctgac	69300
caatatggtg	aaaccccatc	tctactaaaa	atacaaaaat	tagctgggca	tggtggcggg	69360
tgcctgtaat	ctcagctact	caggaggctg	aggcaggaga	atcgcttgaa	cccaggaggc	69420
agaggttgca	gtgagccaag	atcgcgccat	tgcactccag	cctgggggac	agagcaagac	69480
tccgtctcaa	aaaaaaaaac	acaatacctt	tcatattaac	actaataaaa	tgaaatatgt	69540
gtagttctaa	caaagtttgt	tgtagaagat	ctatatgaga	agaattatag	cactcatgaa	69600
agaaatcaaa	gatctaagta	aactgagaga	tattccatgt	aaatggacag	ggagactaaa	69660
tattattgag	atgtcagttc	ttcccaagtt	catatatcga	ttcagtgcag	tcccagtcaa	69720
accccagcca	gttattttgt	ggatactggc	aaactaaagt	ttatatgaaa	aggcaaaaga	69780
cctagaacag	ccaacacagt	attgaagaag	aaaaaagtca	gaggactgaa	actacccaat	69840
ttcaagactt	actgtaaagc	tacattaatc	aagacagcat	gtcattggca	aaagaataga	69900
caaataaatc	agtagaattg	gacagagagc	ctagaaatca	acccacacag	ataaagtcaa	69960
ctgatctttg	gcaaagggac	aaagacaatt	cagtggagaa	aagatagcct	tttcaacaaa	70020
tggtatagga	caactggaca	tccacatgca	aaaaagttaa	tctagacaca	gacctgacaa	70080
ctttcacaaa	aataaatgga	tcatagacct	aaatgtaaca	tgcgaactga	aacttctaga	70140
ggataacata	ggagaaaatc	taggataaca	tgagaaaaat	ttttggtttg	gcagtgactt	70200
cttaggtaca	ataccaaaac	atgatccttg	aaaaaaaaa	tcagtatgtt	gaactttgtt	70260
taaattataa	acttctgctc	tgtgtaagat	gctgttagga	gaatgaaaag	acatgcagca	70320
gagtgggaga	ctttacaaaa	ttcattatct	gatgaaggac	cagtatccaa	aatatacaaa	70380
gaacttttaa	aactcaacaa	taagaaaata	tacaacccag	ttaataaatg	ggcaaaatat	70440
ctgaacagac	acctcaccaa	ggaagataga	tagatgacaa	caagcatatg	aatatatgct	70500
caacatcatg	tcgttaggga	aattgcgcat	taaaacaaca	acaagatacc	ctgccatccc	70560
tattagaatg	gctgaaatct	aaaacactga	caacaccaaa	ttctggcagg	gatgtggagc	70620
agcagaaact	ttaattcatt	gctgatggaa	atctaaaatg	gtagaaccat	tttggaaggt	70680

agttggacag	ttttttacag	aactaaagac	agtttgacag	tttcttacaa	aactcttacc	70740
atatggtcca	gcagtcttac	tccttagtat	ttacccaaat	aagtttaaaa	tgtacatcca	70800
ataaaaaaaa	ctgcacatga	atatttctag	cagcattatt	catagttgcc	aaaacttgga	70860
agcagtcaag	gcatccataa	gtaggggaat	ggataaacag	actttggtat	atcatgtaat	70920
ggagtattat	tcagcaataa	aaagaaatga	tctatcaagc	cacaaaaata	tatggaggaa	70980
ccataaatgc	atattgctaa	atgaaagaag	ccagtctgaa	gaggctacac	tataggattc	71040
tgactatatg	atgttttgga	aaaggcaaaa	ctatggaaac	agtaaataga	tcagtggttg	71100
ccaagggaga	cagggagaga	tgaataggtg	gagcacagtg	gatttttaag	gcagtgaaac	71160
tgttctttat	gataatccaa	tggtggatac	atgtcattat	acctttgtca	aaacccacag	71220
aatataaaac	ataagagtga	accctaatgt	aaaatatgga	cttcagttaa	taataatata	71280
tgaatatttt	ttcattagtt	ctaacaagtg	tactacacta	atacaagata	ttcagagtag	71340
gggaaattgg	aaaggaatga	gaggttatat	gggaactctg	tactttctgc	tcaattttct	71400
gtaaacctaa	aatcactaaa	aaaaaagttt	atttttattt	ttatttttt	ttaattttta	71460
attttttgag	atggagtttc	actcttgttg	cccaggctgg	aatacaatgg	cacgatctcg	71520
gctcactgaa	acctccgcct	ccagggttca	agcgattctc	atgcctcaac	ctcccgagta	71580
gctgagatta	caggcatgtg	ccaccacgcc	cagctaattt	tgcagtttta	gtagagacag	71640
ggtttctcca	tgttggtcag	gctggtcttg	aactcctgat	ctcaggggat	ctgcccgcct	71700
cggcctccca	aagtgctgtg	attataggcg	tgagcagctg	cgcccagcag	gtttttttt	71760
ttaagttgga	tattagccat	ttcatatgat	tcaacttaaa	agtacataca	ccttcactgt	71820
tattaaagtg	taggtgagat	gttttcagtc	tggagctcta	cccttgattc	ctgccatgcc	71880
tagtgtccct	gaatctggag	actctgactt	atttctttag	agaacgaaac	tcctgccttc	71940
tgctttggtg	gtgattggta	cctgcttgac	tgcctttggt	ggggagttcc	tcataccaac	72000
tttcaatcag	ttcctgtgtt	tgtttgtttg	tttgtttttg	agacggagtt	ttgctctgtc	72060
gcccgggttg	gagtgcagtg	gcgcaatctt	ggctcaatac	acgctccgcc	tcccgggttc	72120
acgccatttt	cctgcctcag	cctcctgagt	agctgggacg	acaggcaccc	gccaccacgc	72180
ccggctaatt	tttttgtatt	tttagtagag	acggggtttc	atcgtgttag	ccaggatggt	72240
ctcgatctcc	tgacctcgtg	atccgcccgc	cttggcctcc	caaagtgctg	ggattacagg	72300
cgtgacgact	gtaagccacc	gtgcccggcc	agttcctctg	tttttgactg	cctgccttac	72360
tactgctttc	tgtggtgcct	gataacatcc	aattcctgaa	ccttcctggg	atttttgttc	72420

gcttcttgca	tttaggtatc	ccttcacaag	taggcattta	ggttttaagc	72480
gatttaccac	actttatcag	ttctccattt	tgtggaattc	attgtgttaa	72540
tatttttgtt	tggaagattc	atatatttt	tattcattta	gtattttttg	72600
		tgttcaatat	gtcttgttta	agcagtctgc	72660
	•	atttctttt	tttttttt	tttttttt	72720
		ggctggagta	cagtggcaca	atcaaagctc	72780
					72840
					72900
					72960
					73020
					73080
					73140
	•				73200
					73260
					73320
tctattattt	acgacttgct	ttttgctatt	gtacactttt	gttttttttg	73380
ttgttttgtt	ttgagtgatc	tgggctcacc	gcaacctccg	cctcctgggt	73440
ttcatgcctc	agcctcccaa	gtagctggga	ttacaggcac	acgccaccac	73500
gttttttatt	tttggcagag	acaggatttc	gccatgttgg	ccaggctggt	73560
tgacctcaag	cagtcctcct	acctgggcct	cctaaagtga	tgggattaca	73620
actgcacctg	gctgatacac	ttttaagttt	ttcagctact	tttcaatgta	73680
gaaaaccatg	tacgttatct	tcagtagtgt	gtttttggtt	ggttaaattt	73740
ttgtcattat	tttttgtaaa	ttaaattttt	acctggaaga	gcttacctta	73800
tatctttcta	acccctgatt	tttgcttcta	ctatcataat	aactttattt	73860
tatgttatag	ctttttttt	tttttaagta	ttcttttgcc	agaagttttt	73920
ggatacctct	ttcctctgca	tagtcctcct	ggatggaaga	aacaaagagg	73980
cttttcctta	gatgtttgtc	tttctcaaag	cagttatctt	tgtatatcta	74040
agaataacac	tgtctctctt	ttttttaaa	tctctctcta	ctcattctct	74100
	tattttgtt taagtagaga accaccgagg gggtctcact tggcctccca tgatccagca ctatgttgcc ctaaagtctg atttatgatt aaaaaaggat tactcttgg agtttctgt tctattattt ttgtttgtt ttcatgcctc gtttttatt tgacctcaag actgcacctg gaaaaccatg ttgtcattat tattttcta tattttcta tattttcta tattttcta tattttcta tattttcta tattttcta tattttcta tattttcta	gatttaccac actttatcag tattttgtt tggaagattc taagtagaga aacatgccta accaccgagg agttggtttt gggtctcact ttgtcagcca tggcctccca agctcaagtg tgatccagca cacccagcta ctatgttgcc caagctggtc ctaaagtctg ggattacagg atttatgatt atgtgttcc aaaacaaggat gctttttaga aaactaaagt tgagatattt tactctttgg tccacctggg agtttctgt tgagatattt tctattatt acgacttgct ttgtttgtt ttgagtgatc ttcatgcctc agcctccaa gtttttatt ttggcagag tgacctcaag cagtcctct actgcacct gctgatacac gaaaaccatg tacgttatct ttgtcattat ttttgtaaa tatctttcta acccctgatt ttgtcattat tttttgtaaa tatctttcta caccctgatt ttggatacctc ttggatacctc ttggatacct ttgtcattat tttttgtaaa tatctttcta gctctctac gaaaaccatg tacgttatct ttggatacctc ttccttgca cttttctta gatgtttgtc	gatttaccac actttatcag ttctccattt tattttgtt tggaagattc atatatttt taagtagaga aacatgccta tgttcaatat accaccgagg agttggttt attectttt gggtctcact ttgtcagcca ggctggagta tggcctccca agctcaagtg atcctcccac tgatccagca cacccagcta attttttt ctatgttgcc caagctggtc ttgaactctt ctaaagtctg ggattacagg tgtgagccac atttatgatt atgtgttcc tttaaagcta aaacaaaggat gcttttaga tggcaaagag aactaaagt tgagatattt tagttgtca tactctttgg tccacctggg aatgggaaga agttttctgt tgagatattt gggataatat tctattattt acgacttgct ttttgctatt ttgtttgtt ttgagtgatc tgggcaccc ttcatgoctc agcctcccaa gtagctgga gtttttatt tttggcagag acaggattcc ttgacctcaag cagtcctcct acctgggct actgcacctg gctgatacac ttttaagtt tgaaaaccatg tacgttatct tcagtagtgt ttgtcattat tttttgtaaa ttaaatttt tatctttcta acccctgatt tcagtgt ttgtcattat tttttgtaaa ttaaatttt tatctttcta acccctgatt tttgctcat tatgttatag cttttttt ttttttaagta ggatacctc ttcctcgca tagtcctcct tttttctta tttttttt ttttttaagta	gatttaccac actttatcag ttctccatt tgtggaattc tatttttgtt tggaagattc atatatttt tattcatta taagtagaga aacatgccta tgttcaatat gtcttgttta accaccgagg agttggttt attctttt tttttttt tggctccacc tggctggagta cagtggcaca tggcctccca agctcaagta attttttt ttttaattt ctaatgttgcc caagctggtc ttgaactctt gggctcatgt ctaaagtctg ggattacaag tgtgagccac cacaccagca attatgatt atgtgtttcc ttgaagcac cacacccagca attatagatt atgttttag tggcaaagag tacttaaaat aaaaaaggat gctttttaga tggcaaagag tacttaaaat aactctttgg tccacctggg aatgggaaga caatgctggt agttttctgt tgaggatatt tggaaaaaaaga caatgctggt tctattattt acgacttgct ttttgctat gtacactttt ttggttttgtt tttggctaac gaaaaaaaga caatgctggt ttcatttatt tttggctac gccatgttgg	gatttaccacactttatcagttctccattttgtgggaattcattgttttgtaatttttttttttggaagattcatatatttttattcatttagtattttttgtaagtagagaaacatgcctatgttcaatatgtcttgtttaagcagtctgcaccaccgaggagttggttttatttcttttttttttttttttttttttgggtctcactttgtcagccaggctggagtacagtggcacaatcaaagctctgaccacgaagctcaagtgatcetcccacctcagcctcctgaatagctgtgatccagcacaccagctaattttttttttttaatttttgtagaagctatgttgcccaagctggtcttgaactcttgggctcatgtaatcetcctgctaaagtctgggattacaggtgtgagccaccacacccagctgttttaatatttatgattattgtttcctttaaagctatggcagctctgttttggaaaaactaaagtgcttttagatggcaaagatacttaaaatgtctctagaaaaactaaagtgctttttagatggcaaagacaatgctggtaagggttctctactctttggtccacctgggaatgggaagacaatgctggtaagggttctcagttttctgtttgagtattgggataatatgaaaaaaagaaactttatctttgttttgttttgagtgatcttttgctattgtttttttggtttttttgttgacttagctagcctccaagtagctggattacaggcacaccectgggtttgacttagettttggcagaaacaggatttcgccaggctggttgaccccaagcagtctcccagctggatacaccctaaagtgattgggattacattgtcattattttttggtaatttaagtttttcagcagaagcttaccttattgtcattattttttttttttgcttcactatcataataactttatt

ctcaggagga	gagtagaaag	aagcacagct	cttcctataa	cctgtcctta	ttactgagaa	74160
aggaacacat	tgattgccat	gtattgggga	ttgtattata	ccttacattt	ttatttttat	74220
tttttattaa	tttttttt	tagacagtct	tactctatca	cccaagctgg	agtgcagtga	74280
tgtgatctcg	gctcactacc	atctcttcct	tctgggttca	agcaattctg	ccacgtcagc	74340
ttcctgagta	gctgggatta	caggcatgcg	ccaccacgcc	tgactaattt	ttgtatttt	74400
attagagatg	ggatttcacc	atgttggcca	ggctggtctc	aaactcttgg	cctcaagtga	74460
tgcgcctgcc	teggeeteeg	aaagtgctgg	gattacaggc	atgagccacc	acacctggcc	74520
tcatagctta	catttttaga	gaatcttttc	tagtacttaa	atcggtaaat	atggttatct	74580
tttaaatgta	atatattgaa	ctaatttaat	atttgctctt	gtgattttta	aaggctaaag	74640
cagtagctgc	agaatcgaat	gcaaccttct	ttaatataag	tgctgcaagt	ttaacttcaa	74700
aatacgtgag	tgctctgttt	ccaatattgt	cgtattttaa	gttactgtct	aaatgttact	74760
gtgttaactg	taaatggtaa	tatttcatga	aaatattttt	ctaggagctt	atctattgta	74820
tctattattt	acatatgatg	aatatctatc	ttcagagtag	aaagttatgt	acatttgtgt	74880
tgtcaaatac	tgtattagtt	tactggggcc	atgtaataaa	ataccgtaaa	ctggctggct	74940
taaacatcag	caatttattg	tctcacagtt	gtggaaggta	gaagtctaag	atcagtcaaa	75000
atgttggcag	ggttgcttcc	tcctgagggc	tgtgagggaa	aatgtatgtt	gtgtgcctct	75060
ctcctggctt	ctggtggctt	gctggcaatc	ttttgtattc	cttggcttgt	agatgcatcc	75120
ctcctatctc	tgtctttatc	tttatgtggc	attctccctg	tgtctgtcac	catgtccaaa	75180
tttcccctgt	ggattaggac	ccaccctaat	gatctcaatt	taagtttgtc	atcagcaaca	75240
attctatgtc	caaataatgt	cacattcata	ggtactaggg	ataggacttc	aacacgtttt	75300
tggagaacac	agttcaaccc	attaacaaat	actatcactt	tccacttaag	cttcaagtaa	75360
agtggatttt	atctcaagga	gccaccagat	aggaacacag	atctgatggc	ataaactgag	75420
tatttctggc	cttctgattc	tgatctaaaa	tatgacagaa	gattttccct	gttttaattt	75480
tttttttt	tttataatag	agacacagtc	tcgctatgtt	gccaggctac	tttcaaattc	75540
ctgggcttaa	gcaatcctcc	tgcctcggac	tctcaaagtg	ctggaattac	aagtgtgagc	75600
caccacacct	ggccagtaga	ttttccctgc	tttcttttga	ttgtttataa	ttttgttttc	75660
ttittccatt	caccctctgc	tgaccctata	gtattattca	`aagaagtgtt	cagtctagtt	75720
ttggggtagg	gcaagcataa	ctacagtgct	taaagagagt	aatttgtctg	gtgtgcagaa	75780
ctagtgtgta	aatataactg	gtgcattgca	aaactgtgaa	gtagtttctg	tcaaacctta	75840

cactgctttg	tctttctccc	tctctccctt	tctcttggtt	gccccctccc	cctcccaatg	75900
ataccttagt	ctctgcttgc	ctttatcaaa	acctttatga	ttggccgggc	acagtggccc	75960
atgcctataa	tcctagcatt	ttgggaggct	gaggcaggaa	gatcacctga	gcccagaagt	76020
tggagaccag	cctaggcaac	atggtgaaac	cccatctctt	ccaaaaataa	aaaatagagc	76080
caggtgtggt	ggcatgcacc	tgtagtccca	gctactcagg	aagctgaggc	gagaggatct	76140
cttgagcctg	agaggttgag	gctgcagtga	actgtgatca	tgccactgca	ctccagcctg	76200
agtgacagtg	tgagaccctg	tctcaaagaa	acaaaacaag	ggggggcatg	gtggctaact	76260
cctgtaatcc	cagtactttg	ggagactgag	gcaggaggat	tgcttgaggc	caggagttca	76320
ataccaccct	gggcaacata	gtgagacccc	catctctaca	aaaaataaaa	aatttagctg	76380
gacatgccag	cgaatacgtg	gtcccagcaa	atcaggaggc	tgaggtggga	ggatcacttg	76440
agtcaaggag	gttgaggttg	cagtgagcca	cgatcatgcc	aatgcattcc	aacctgggcg	76500
tcagagcaag	accacgtctc	aaaaacaaaa	caaaacaaac	ttttatggtt	gaaagtgttt	76560
tggcaaacat	acttaaactg	aaatgtgaat	ctctgatgaa	agaacatgtt	acctgtaaaa	76620
gtttgaagtg	tcagcatttg	ttgcaccgaa	atccagaggt	gaggccaggt	gtggtggctc	76680
acgcctgtaa	tcccagcact	ttgggaagcc	aaggctggca	gatcacctga	ggtcaggagt	76740
tcaaaaccag	cctggccaac	attgcaaaac	cccgtctcga	ctaaaaatac	aaaaattagc	76800
cagacttggt	ggtgtgcgcc	tgtaatccca	gctattcggg	aggctgagac	acgagaattg	76860
ctcgaaccca	ggaggcagag	gttgcagtga	gccgagatgg	caccactgca	ctccagcctg	76920
ggcaactgag	tgagactctg	tctcaaaaaa	aaaaaaaaa	aaaaatccag	aggtgaatcc	76980
agaggtgatc	accacatgat	atccagatag	cctctttcca	tgagaggctc	aaaggataat	77040
tttactgtct	acagttttgc	agcgagagaa	acttgatttt	atcagtacac	caagagcaga	77100
tctatgtctt	cggaacagac	atgagatcag	aattgtctag	ctgctatgaa	cagcatgttc	77160
tctccctgta	cctatagaca	tgtatgggaa	acttatttgt	aaggttgtat	aatgagcagt	77220
gagttaaagc	aaacttgaca	tgttgaccat	agttgttatg	gcattggact	aaagtagcct	77280
ccatcactat	gatagagata	gccttggtgt	tggacccata	gtttttgaag	tctgtttgct	77340
aagactccct	cttccttagg	cagttcttca	aatattatta	tgctttttcc	tgtcatggga	77400
ttcctcttca	tggagtttcc	tttctcagga	acactatctt	ctcctggtta	atttgtactt	77460
attcttcaga	taccagttga	aatgttacaa	ccttccctga	ccctccaaac	tattccccgt	77520

tattattctc	ctagcaccac	ttgcacctca	ttttcatact	cactggagtt	gcaattcata	77580
ttcattgata	ggattatttt	aattgtatct	gatatcactg	tcacctccac	tagaagatgg	77640
tctccatgcg	ggcagagact	atcaccatgt	gttcttcact	tcaattttca	gtagttggct	77700
gtgagtaggt	attgaataaa	tatttgtgga	gtaatcataa	tgaggtatag	atattattct	77760
catagctcta	ttttattaat	tagggaatta	cagaattcag	tgatctgctc	aggatctcat	77820
aaccaggaag	tgggaaacta	ggatttgagc	tccagtgagt	gtggcctttc	attaaaaata	77880
ttacagcaac	cattctcttt	tttttttt	ttttttttga	gatggagtct	tgctctggag	77940
tgcagtggcg	tgatctcggc	tcactgcagc	ctctgcctcc	cgggttcaag	tgatccccct	78000
gccttagcct	gctgagtagc	tgggactaca	ggcacccgcc	acgacacttg	gctaattttt	78060
gtattttagt	agagacgggg	tttcaccatg	ttggccagga	tggtctcgat	ctcctgacct	78120
tgtgatccgc	ccgcatctac	ctcccaaagt	gctggattat	aggcgtaagc	caccacaccc	78180
ggcctacagc	aaccattctc	ttttatccat	acttttttca	agagtactgt	ttcatcttca	78240
tgttttcaga	aacaacatag	cattcatgat	cttaaccccc	aattctgata	ctgcctgaat	78300
atcttgaagt	aagtttactt	ttaagaaagt	tgaggctagg	tgtggtggct	catgcctgta	78360
atcccagcac	tttgggaggc	caaggcaggt	ggatcacttg	agctcaggag	ttcaagacca	78420
ggctgggcaa	catggcgaaa	ccctgtctct	accagaaata	caaaaaatta	gtcgggcgtg	78480
gtggcgtgtg	cctgtggtcc	cagccacttg	ggagactgaa	gtgggaggat	ttcttgagct	78540
tgggaggtgg	agtttgctgt	gagccgagag	atcatgccac	tgtactccag	cctgggtggc	78600
agagtgagat	cccatctcaa	aaaaagaaaa	gaaaaagaaa	attgaaatgt	ctagtctatc	78660
attttgtcag	ttctatctaa	tacaattttt	tccttatgtc	taactgaaat	ctgctttttc	78720
taatttttac	atacttgatt	taacaaaact	caatctttt	tttttttat	gagacagcct	78780
ttcaaatata	taggaactta	atgttatatc.	tgcttccctc	cagtccccag	aatagttact	78840
attttagttg	tctttctatg	gtctcatgcc	agtttgtcag	tatgcctaga	taagaactga	78900
atattttacc	tcagatgtga	cctgactttg	aagacttaaa	aaggaagcat	tgtgccaggc	78960
gcagtggctc	acacctgtga	tcccagcact	ttgggaggcc	gaggtgggca	ggtcaggagt	79020
ttgagaccag	cctgattaac	atggagaaac	cccatgtttc	tctactaaat	acaaatctct	79080
actaaatact	aaatactaaa	tctctactaa	aaatacaaaa	gatgagctgg	gcattgtggc	79140
acatgcctgt	aatcccagct	actcgggagg	ctgaggcagg	agaatcactt	gagcccagga	79200
ggcggaggtt	gcggtgagcc	gagattgcgc	cattccactc	cagcctgggc	aacaaaagtg	79260

aaactccatc	tcaaaaaaaa	aaagcagcag	cattgtgtaa	tattatgtag	atgttgtgtc	79320
tcatgatcta	tcctgagaaa	gcttttggga	ggaactgcat	catagtcatg	gacaacattt	79380
gtgttattaa	aatatctaga	ttattttcca	caaaaaatca	gttacatatg	tatcttaaca	79440
tgttgtatta	ttgtttaacc	ttgtttattg	aataactaac	atgtagaaaa	gtatttatag	79500
cataagtata	cągctgtata	cagctcagtg	gattaccaca	aagcgaatat	actttcataa	79560
tcaccaccca	ggtcaagaaa	taaattgtta	cctgtggccc	taaaatccct	ccaggcactc	79620
caccatcttt	atccactcac	tcctctccct	caaaaccact	agactactaa	catcatagac	79680
aaagctagca	tgcctttgaa	ctttatataa	atctaatgat	gtaggatttt	gtgtgtatgt	79740
gtatttggct	tctttcatca	gcattgtatt	tgtgagattt	atccagattg	ttgcaagtag	79800
ttgtagttgt	gcttttttac	acagatttaa	tttttatatt	tttcttatat	gttcgaacag	79860
ttaacctgct	tatctattat	taaaaaaaaa	aaaacgaaca	ttcacatagt	tcttaccagt	79920
ttacagtgtt	ttttccacac	cgtcttcaaa	atgtaaagtt	tggtcttcaa	tacatcagta	79980
tgctgctaga	tttaaatact	agggaaaaaa	aaatcagaga	agttaataat	attaactgtc	80040
acctccacta	gaagatggtc	tccatgtgga	cagtaatatt	tctcttgtat	tatctgtgct	80100
aagtaaaatc	ttctgtaagt	ttctttaaat	attttaataa	atcatagtac	ttaaaatgtt	80160
ctcaatattc	taaagtagtt	aaaagtaact	ataaaatagt	acctgttttt	ctgatcacat	80220
tttacttcct	atgtgaaatt	ttacaagtcg	ttactctatt	tatttattga	tttatttttt	80280
aagacagggt	ctgttctgtc	gcccaggctg	gagtacagtg	gcgtgatcat	ggctcactgc	80340
agcctcagcc	tcctgggctc	aagtgatcct	cccaccttag	catcccaagt	agctgggact	80400
ataggcacat	gccaccatgc	ccagctaatt	ttaaaaaatt	ctggggggcc	gaatgcggtg	80460
gctcacacct	gtaatcccag	cactttggga	ggccgaggca	ggcgaatcac	aaggtcagga	80520
gttcgagacc	agcctggcta	acatggtgaa	accctgtctc	tactaaaaat	acaaaaaatt	80580
agcggggtgt	ggtggcaggc	gcctgtaatc	ccacttactc	aggaggctga	ggcaggagag	80640
ttgcttgaac	ctgggaggca	gagattgcag	tgagccgaga	ctccatctca	aaaaaaaaa	80700
atttttttt	gtagtgacaa	ggtgtcactg	tgttgccagg	gctggtctca	aacttctggg	80760
ctcaagtgat	cctcccattt	cggcctccca	aagtgctagg	atcacaggca	tgagtcactg	80820
tgcctggtct	tcaagttgtt	attaaagcat	gtttacccac	attatgcaca	tggtataatg	80880
gaaagtattg	ttgtggaagt	taggagatag	ggattctagc	ctagcttttt	atttttttgg	80940

gacaaggtct	cactttttcg	ccccaggccg	aagtgcagtt	gtgcgatctc	ggctcactgc	81000
aacctccaac	tctcaggttc	aagcaattct	cccacgtcag	cctcccgagt	agctgggatt	81060
acaggcatgc	gccaccacgc	ccggctaatt	tttgtagttt	tagtagacac	agggtttcac	81120
catgttggcc	aggctggtct	tgaactcccg	acctcaggtg	atccacccac	cttggcctcc	81180
caaagtgctg	ggattacagg	catgagccac	cgcacccggc	ctctagcgta	acttttacat	81240
cctgaactga	ccttaagaaa	gtataacttt	aggcctgttt	catctgtaaa	atgttaatgt	81300
cataggagat	gatcttttga	gatttctttc	agctctgata	attttgtgtg	tgtgtgtgtg	81360
tgtgtgtgtg	tgtgagatgg	agtcttgctc	tgtcgcccgg	gctggagtgc	agtggtacca	81420
tctcggctca	ctgcaagctc	cacctcctgg	gttcacgcca	ttctcctgcc	tcagcctccc	81480
gagtagctgg	gactacaggc	gcctgccacc	acgcctggct	aattttttgt	atttttagta	81540
gagacgaggt	ttcaccgtgt	tagccaggat	ggtctcgatc	tcctgacctc	gtgatccgcc	81600
cgcctcagcc	tcccaaagtg	ctgggattac	aggtctgagc	cgccgcgccc	ggcctagaat	81660
atttgtttcg	attattctaa	atctggtgac	atttcttttg	tttttaagtt	aaatcttcag	81720
taaaaagaat	aaatgccacc	tagaggacag	aaaaattttt	acagtagatt	atcacagacc	81780
tcatgactca	ttactttggt	gtataaaatg	gcctttgtat	ggtgtcagca	cctgggaatg	81840
tctcaagggg	tgttcattga	ccttctggac	tatctggaaa	tattttgata	tttattggct	81900
gggcgcggtg	gctcatgcct	gtaattccag	cacctcggga	ggccaagtta	ggtggatcac	81960
ttgaggtcag	gagtttgaga	tcagcctggc	caactaagtt	agttgactat	ttgtgaaatt	82020
tccctctcca	aataggaaag	ataggattgg	aaacattatt	cagaaggaag	aagttttaaa	82080
gaagggcagg	cttaaagact	atctaatgaa	tttaccaata	tggtaaaacc	ccatctttac	82140
taaaaataca	aaaattagcc	aggcgtggtg	gtgggcgcct	gtaatcccag	ctacctggga	82200
tgttgaggga	tgagaatcac	ttgaacccag	gaggcaaaag	tcacagtgag	ccgagattgc	82260
accactgcac	tccagactgg	gctatagagc	aaaactctgt	ctcaaaaaaa	aaaaggaaaa	82320
aaaaaaaaga	aattttgata	tttatgtgag	aatgactttt	cacggtgttc	ttaatagcgc	82380
aagttttgtt	taggagagca	cattccaact	tacttgcttc	tataaatata	ccgtgtaatc	82440
tagggcttaa	agaatatgta	caatgtcttt	ttctctcccc	tagtcttccc	cttttctcac ·	82500
tagttatatc	cttgactgaa	gagctatttc	attctcaagt	cttaggaatg	cagggtgaag	82560
caaaacagat	gaattttaa	agcacttaac	caggctgtat	gaaatcacag	tctgttgtct	82620
aaaattgtaa	gggacggtta	gtagtactct	cccctttctc	aaaccaaatc	tttggttgtt	82680

ttaaggaagg	gaaattaaat	tcctgtgtgc	tagattttca	acataaaatt	taaaaaactg	82740
gaataatgtt	gcattttatg	tgtataacag	tataatgctt	tgttttaggt	gggagaagga	82800
gagaaattgg	tgagggctct	ttttgctgtg	gctcgagaac	ttcaaccttc	tataattttt	82860
ataggtaaga	acatatttc	caactaagtt	attgactatt	tgtgaaattt	ccctctccaa	82920
ataggaaaga	tacgattgga	aacattattc	agaaggaaga	agttttaaag	aagggcaagc	82980
ttaaagacta	tctaatgaat	ttagtaggac	ccactatatt	aataagtagt	aaactagatt	83040
aatctcagat	gactcacata	gcttggtctt	taattaaagt	cttatacttg	tatttcctct	83100
agatgaagtt	gatagccttt	tgtgtgaaag	aagagaaggg	gagcacgatg	ctagtagacg	83160
cctaaaaact	gaatttctaa	tagaatttga	tggtgtaagt	gttgattatg	atattttaa	83220
tgtggcagca	ttttagtata	ttttcctatt	aaatggccaa	ggttaaaaat	acaaatatct	83280
ttatatttgt	tattactttt	ctaaatgaat	tgaaaaaaga	ttttttgctt	gtaggtacag	83340
tctgctggag	atgacagagt	acttgtaatg	ggtgcaacta	ataggccaca	agagcttgat	83400
gaggctgttc	tcaggtaggg	agatttatat	ggaaatacat	gcatttatta	cagacaatat	83460
ttactcatgt	gtccatctta	catattattt	ccttactctc	agttttaaga	ctaaattcac	83520
tattttcttc	cagtactatc	tctagcctct	tgttaccaac	tacataagga	ttttgaggtc	83580
aacagcttga	tatcaggaga	attagtctag	taaaggttta	gttacggttt	taggcaaatt	83640
ggtcagttct	tctgggttgc	attaaattat	ctttaaactt	gaaaattgat	tcttaccgtc	83700
ttttattggg	cttcatgaga	aaataatcaa	atcagggttc	atggaaaatg	tgttttctgt	83760
tcttgtgtgt	ttgagcagtt	tattcccttc	atactggaag	gacggtttgg	gtcagcataa	83820
aattcttggg	catcctttcc	caaggaattt	acaatattgc	tccattgttt	ctagattggc	83880
tgtagtagtg	taaaagtctg	aatccaaatt	gattttttca	aatttgtaaa	ataacttgat	83940
ttttttctct	ctttactgga	tgggttacgt	gggtatattg	cacccaggta	gtgagcatag	84000
ggtgcagtag	gtagtttttc	aacccacacc	tcactgcttt	cttcccccat	gtagtagtcc	84060
gcagtgtgta	ttgttcccat	.gtttatgtcc	atgtgtactc	aatttttagc	tccccactta	84120
tgagaacatg	agctatttgg	tttactgttc	ccacattaat	tggcgtagta	ttaaggcctc	84180
cacctccatc	catgttgctg	caaaggacat	tatttcattc	ttttttatgg	ctgcgtagta	84240
catagtattc	catggtgtgt	acgtaccaca	ttttctttat	ccagtccacc	attgatggac	84300
acttagattg	attctatgtc	tgctgtcatg	aatagtacag	caataaacat	gaaatgcatg	84360

tctttttggt	ataatgatct	attttccttt	gggtatatac	ccagtaatgg	gatttcaggg	84420
tcaaaggtag	atttgtttta	tgttttttga	gaaatcttca	aactgctttc	tacaatgact	84480
gaactttaca	ttcctaccag	cagtacatac	gctccacaac	ctcaccaaca	tctgttattt	84540
ttttactttt	tcccgccaat	ctgtagacaa	tatgggattt	tttttgccat	tttattaata	84600
gccattctga	ctggtgtgag	atatctcatt	gtgattttga	tttgcatttt	tctgatggtt	84660
agtgatgatg	agcattttt	catgtttgtt	gtcccctcgt	atgtcttttg	agaagtgtct	84720
attcatttcc	tttttaccca	ttttttaata	gggttgtgtg	tttttagctt	gttcaattgt	84780
ttgaattcct	tatagattct	ggatatcaga	ccattgttag	atgcagttct	gtagattgtc	84840
tgtttactct	gttgatggtt	ctttttgctg	tgcagaagct	ctttagttta	attaggtccc	84900
acttgtcaat	ttttatttt	gttgcaattg	tgtttgggga	cttagccaaa	atttctttct	84960
gaggctgatg	tcaagaagtg	tatttcctag	ttttcttcta	gcatttttat	actttgagat	85020
cttacattta	aatctttaat	ccaccttgag	ttaatttttg	tatatggtga	aaagtaaggg	85080
tccagtttca	tttttctaca	tatggctagc	cagtaatccc	catgccattt	attgaatagg	85140
gagtcctttt	cctcattgct	tgtttttgtc	agtcttatca	aagatcagat	ggttataggt	85200
gtgtggcttt	atttctcaat	tttctgtcct	gttcctttgg	tttgtgtgtc	tgtttttata	85260
ccagaattat	gctgtttggg	ctgctgtgta	gttcggttta	aagtcaggta	acgtgatact	85320
tacagctttg	ttctttttgc	ttaggattgc	tttgtctatt	tggactcttt	ttttgcttcc	85380
atatgaattt	tagaatattt	ttttctaatt	ttgtgaaaaa	caacattgat	agtttgatag	85440
aaataccatt	gaatctgtaa	attgctttgg	gcagtatagt	cattttacga	ccagataaat	85500
caggcaagag	aaggaaacaa	aaggcatcca	aataggaaaa	gaagtcatca	tactctcact	85560
cttcactggc	aatatgattc	tatactttga	aaaccctaaa	aattccgtca	aaaggctact	85620
agaactgata	aatgatttta	ccccaagatt	caggatacaa	aatcagtgta	caaaaaatta	85680
gtaccatttc	tatacgctaa	taatgtccag	gctaagagtc	aaatcaagaa '	cacagtccca	85740
tttacaatag	ccacaaagaa	aatgaaataa	tggctgggca	cagtggctca	tgcctgtaat	85800
cccagcactt	tgggaggctg	aggcaggtgg	atcacctgag	gtcaggagtt	cgagaccagc	85860
ctgaccaaca	tggtgaaacc	ccgtctctac	taaaaataca	aaaaattagc	caggcgtggt	85920
ggtgggcgcc	tgtaatccca	tctgctcggg	aggctgaggc	aggagaattg	cttgaaccca	85980
ggaggcatag	gttgcagtga	gccgagatcg	tgccactgca	ctgcagcctg	ggtgtgaaag	86040
agcaagaatc	cgtttccaaa	attaaaaaaa	aaaaaagaaa	aaaaaaaaga	caatggagta	86100

cctaggaata	cggctgatga	aggaggtgaa	agaatctgta	tgaggagaag	tgtaaagcac	86160
tgctaaaata	aatcagaggt	gacacaaata	aatggaaaaa	cactccatgc	tcatggattg	86220
gaagaatcaa	tatcgttaaa	atgggaaatt	tatcttaatt	tttttcccta	gttcattttt	86280
ctgttttctt	ttgcacataa	attatgtgtt	atgttgcgtc	cttttgtttt	ccctatctgt	86340
aattttcttc	ttcatccttt	taaactctta	ggtctttttg	ttttgttctg	ttttcccaag	86400
cctgttgcct	ttatttctta	ctgggttagt	atctaatctc	ctttctgcta	tatcttttgt	86460
aactcttctt	tccttggtgg	ttttttattc	attactttcc	tgacatctgt	tattctactt	86520
ttcatcttct	gttttatttc	tttgagcatc	tgtatgttat	ttccataagc	tcttacattt	86580
cactgggctc	ttgtttcata	gaaaacaatt	ttttggcaag	gacagaccac	ttgaggccag	86640
gagtttgaga	ccagcctggc	caacatagta	caaccctgtc	tctgctaaaa	atacaaaaaa	86700
ttagctgggt	gtggtcacac	acacctgtaa	tcccagctac	tcaggaggct	gataatcgct	86760
tgaacccagg	aggcagaggt	tgcagtgagc	caagacggcg	gcactgtact	ctagcctggg	86820
ggacagagca	aggctctgtc	tcaaaaaaaa	aaagaaaaaa	ttttttggtc	aggcgtcatg	86880
gtgggtcaca	cctgtaatcc	cagcactttg	ggaggccaga	tcacttgagg	ccgggaattc	86940
cagaccagcc	tcgccaacgt	ggcaaaaccc	catatctata	aaaaaaactt	aaggataaaa	87000
aaaattaaat	ttttaaaaaa	ttaaattatt	ttatttcgtg	gaaagatact	tggtcataat	87060
tttagtttgc	tctatggcaa	aatcttctca	tgcatgttct	tcattttatc	tagtttatgt	87120
ttattgtgtt	ttgtttgctc	ttttttgggg	gcaggttttg	ttgttgttgt	ttttttttt	87180
tttttttaa	atgagccctg	tcctggtttt	tccttttttg	cttattattt	ttctttgaat	87240
aaaaggagtt	ttcttggaaa	acctagtttt	ggaaggatat	tgtaggggaa	gggataggta	87300
tcttgagtag	tccatgtata	cactaaacta	gcatgcagcc	tccctcactt	acagtgaagc	87360
cctacctaat	aatgaagtat	atgtgtatgt	aaataagaga	tagggttgat	ttattcttct	87420
actaaaaaat	attggtcact	gcaagacatt	gtcttcccgc	cagactgtta	gatgccttct	87480
tataaagata	attcgtctta	gagtttcttt	gttcattctc	accttccttg	ccattcctat	87540
gctatcaatt	agggtttata	tggtctgcag	agccaggctt	catatgcttg	tttaaatgtg	87600
gagggactgg	ccttattacc	ctttagggtg	tgctatctct	ttttgggagg	aaaactgtac	87660
tctgacagtc	atgtccatga	tctttagcgg	cagatccttt	gtgtgtcttc	ctttgtcagt	87720
gtaattttca	ctgccctagg	cagttcacct	ttatgtattt	tagttccata	aatgttacct	87780

agattcaaga agacagatct acttatatca gatatttty ttytttaaa gcattactgc attataaaac attacatac ataacatac ataacatac agagtttaa aagagtaca aaaatattt tacattgata actaccaaaa agagtttaa agagtttaa aagagtaca aaaatattt tacattgata actaccaaaa attacatac aaaatatatt tacattgata actaccaaaa attacattcaaat tycattcaag tyccttgaat attatattt aaaaggttt cotgtcattt gctyttcag attataattt aaaagggtata tytgtcttaa ccaaatgagg aggtatgat ctgtyttga attitttig agcatcattig gaaaacagat tagtggttc taaaaaggt gacaataata agcatcattig gaaaacagat tagtggttc taaaaagg gacagaac aaaaatgtat gtccacacaa agacttgtac aagaatttt ataacaaa gyggtatatt cattaatga accacacaa agacttgtac aagaatttt ataacaaa gyggtatatt cattaatga accacacaa agacttgtac aagaatttt ataacaaa gyggtatatt cattaatga accacacaa agaaattgatc aagaaacagaa gatgatata gtcgcaaac aaaaaggatc taattaataa agccagaact acaaatgatc ataaaaggtt tattitggga ataaacaaa gyggtatatt cattaatga acccaaaaac ataaaaggat aaagaagaaa gatgatataa gtcgcaatac ataaggattc gyttaatagga aagagaacaa aatttattt tattitatt attittiga gatggagttc gyttaatagc agagaacaca aattattit taattatt attittiga gatggagttc gyttaagca gatggattcc ctgcctcaag ctcctgagta gctgagactg gatacaagg catgagtaga gaaaacagca aaatttatta aaaaggaaca gagtacac gggattcac gggaatgg caggaatgg gatacaagg catgagtaca gggattgag gaaagaacaga aaaattcaa aacggaaag gagtacaag gagtacac gggattcac gggaatgg caggaatga gggatacac gggaatggg gaaagaaca aaaattcaa aaaaggaaa gaaacaagaa gagaacaaga gagtacac gggattcac gggaatggg gaaagaaga aaaattcaa aaaaggaaa gaaacaaga gagaacaaa aaattcaaa aaaaggaaa gagaacaaa aaaggaacaa aaaattcaa aaaaggaaa gagaacaaag gagaacaaa aaattcaaa aaaaggaaa gagaacaaa aaaggaacaa aaaattcaa aaaaggaaa aaaaggaaa aaaaggaaa aaaaggaaa aaaaggaaa aaaaggaaa aaaaggaaa gaaacaaaa gagaacaaa aaaggaacaaaa aaaggaacaaaa aaaggaacaaaa aaaggaacaaaaa aaaggaacaaaaa aaaggaaacaaaaaa aaaaggaaacaaaaaaaa	agtttgttga	tgaagtgtat	gtttctgttt	ctattatcct	tgctgatttt	agttttttc	87840
tattaaaaac ataacatac ataaatgatt aaatctaaca ataacgaatt aaggatttaa aaggatttaa aaggatttaa aaggattaaca aaaattattt tacattgata actaccaaaa Etgcattccag tgccttgaat attatatttt aaaagctttt ccctgcattt gctgtttcag Etttaaattc aaaattatat ttctaaaagg gctggatttt tttttttagg cgtttcatca Etaacgggtata tgtgtcttta ccaaatgagg aggtatgtat ctgtgtttga attttttttg Ettttagagca gaaacaagaa ctaccatctt gacaatatta agtcttccaa tccatggtac agcacgcaat ttcactccta agaatttac ccaaggaac aaaaatgtat gtccacacaa Eagacttgtac aagaatttt atagcagcaa tattaaataat agccagaact acaaatgatc agaatttac ccaaggaaac aaaaatgtat gtccacacaa Eagactgtac aagaatttt atagcagcaa tattaaataat agccagaact acaaatgatc Eastatacaa tgcgtgataat cattaatagg atactgtat ccattaaagg aaagaagcaa gatgatatat gtcgcatac atagagattc gtttaatagg aaagaaacgaa aattattt ttattatt atttittga gatggagttc tgctctgcg Eagacacacacacacacacacacacacacacacacacaca						-	87900
aacattaact agagttttaa aagagtaaca aaaattttt tacattgata actaccaaaa 8 tgcattccag tgccttgaat attatattt aaaagctttt cetgtcattt getgttcag 8 ctttaaattc aaaattatat tcctaaaagt getggatttt tttttttagg egtttcatca 8 aacgggtata tgtgtcttta ccaaatgagg aggtatgtat ctggtgttga atttttttg 8 ttttagagca gaaacaagaa ctaccatctt gacaaatatta agtcttccaa tccatggtac agcacactttg gaaaacagtt tagtggtttc ttaaaaaggt gtacataagc ttactgcag 8 aggactgtat attttttgg agcagcaat ttcactccta agaatttacc ccaagagaac aaaaatgtat gtccacacaa 8 agaacttgtac aagaatttt attggtga ataaacaaat gtggtatat catttaatgg atacctgtat attttggtga ataaacaaat gtggtatatt catttaatgg atacctgaac attataaagtg aaagaaacga agtgatatat gtcgcatatc tacactcata tattaagtt tatgaatgaa actccaaaac 8 agaaaacgca aatttattt ttattattt atttttgg gatggagtct tgctcacca aggaaaccga aatttattt ttattattt atttttgg gatggagtct tgctctgteg 8 aggaaaacga agtgaatatt tagtaagga cacacagac cacacaggcc aggagtatcc ctcacgccacacacacacacacacacacacacacacacac	•			_			87960
tgcattccaq tgccttgaat attatattt aaaagctttt ttttttagg cgtttcatg aacggatat tgtgtctta ccaaatgagg aggtatgtat ctgtgtttag atttttttg aggcagaat tgtgtctta ccaaatgagg aggtatgtat ctgtgtttag atttttttg aggcagaat tgtgtgttta ccaaatgagg aggtatgtat ctgtgtttag atttttttg aggcagaat ttagaggat tagtgttc ttaaaaagg tgacatatat agtcttccaa tccatggtac aggcagcaat ttcactccaa agaatttacc ccagagaaac aaaaatgtat gtccacacaa agacttgtac aagaatttt attggtga ataaacaaat gtgggatatt cattaatgg ataactgtac agaatttta attgggga ataaaacaaat gtgggatatt cattaatgg ataactgtat attaaagtt attagggaa ataaaacaaat gtgggatatt cattaatgg ataactgtat attaaagtt attagggaa aaaaaaggaa aattaaaggaaacaa aagaagaaca aaaaaggaca aattaaagga aagaaaacga aattattt ttattatt attatttg gtgagaaaca aactcaaaac attaaagga aggagaacaa aattattt ttattatt atttttga gatggagtct tgctcagag aggagaacaa aattattt ttagtatt atttttga gatggagtct tgctcacacaa aggaaaacga aggagaacaa actcaaaacaa actcaaaacaaacaaacaaaca		-					88020
ctttaaattc aaasttatat ttctaaaagt gctggatttt ttttttagg cgtttcatca 8 aacgggtata tgtgtcttta ccaaatgagg aggtatgtat ctgtgtttga attttttttg 8 gttttaaggca gaaacaagaa ctaccatctt gacaatatta agtcttccaa tccatggtac 8 agctactttg gaaaacagtt tagtggtttc ttaaaaagat gtacataagc ttactgtcag 8 agccagcaat ttcactccta agaatttacc ccagagaaac aaaaatgtat gtccacacaa 8 agacttgtac aagaatttt attuggtga ataaacaaat gtggtatatt catttaatgg atactgttat 8 aaaatgttt attutggtga ataaacaaat gtggtatatt catttaatgg atactgttat 8 accattaaca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac 8 agaaaacgca aatttattt ttatttatt attttttga gatggattct gtttatatgc 8 agaaaacgca aatttattt ttatttatt attttttga gatggagtct tgctcgtcg 8 aggagattct ctgctcgtcg gctcactgca accttcacct cctgggttca 8 aggaattct ctgctctagc gctcactgca accttcacct cctgggttca 8 aggaattct tttgtgttt tagtagagac gggtttcact gtgttagcca ggatggtgg ggatgatgg gggatgagg gggatacac gggattcac gggttgaccc gggatggg ggatgaggg gggatgagg gggatacac aacggatgg gggatgaggg gggatgagg gggatacac gggtttcact gtgttagcca ggatggtgg ggaatgagg aaattcaa aacggatag gggatcaaaa aacggatag ggatacaca aacggatgg ggatgaggaggat taactgcaa aacggataga gggatgagg gtggaagatc tggatgagg gtggagagg ttaactgga aacggaatga gagaaccac aacggatag ggatgagga ttaactgcaa acaggataga gtgaacacac cgtgcccggc 8 agaggatgagga ttaactgcaa acaggataga gtgaactaaa aacggataga gtgaacacac tcaaaaccac tcaaaaccac tggattttta acaacggattg ggatgaaatc atagtagaa aattcatacc tcaaaaaccac tggattttta acaacggatg gtgagaaatc ttatttttatta caagtgtgg gaattattgc tatgtttta tccaagtggtg gtgtccacac cctaaaacc caacacttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gacagcctg gcacacaaa gagaaccca gacacacaa aacttttta ggaactcaa aaccactt ggagagccca tcctcaaaa aacttttta ggaactcaa gacagcacaa gagaaccca gacacacac gagaaccca gacacacac	*	-			_		
aacgggtata tgtgtcttta ccaaatgagg aggtatgtat ctgtgtttga attttttttg ttttagagca gaaacaagaa ctaccatctt gacaatatta agtcttccaa tccatggtac agctactttg gaaaacagtt tagtggtttc ttaaaaagat gtacataagc ttactgtcag agccagcaat ttcactccta agaatttacc ccagagaaac aaaaatgtat gtccaacaaa agacttgtac aagaatttt atagcagcaa tattaataat agccagaact acaaatgttt attttggtga ataaacaaat gtggtatatt catttaatgg atactgttat attaaagttt attttaggtga ataaacaaat gtggtatatt tatgaatgaa actccaaaaac attataaagtg aaagaagcaa gatgatatat gtcgcatact atatgagttct gtttatatgc agaaaacagca aatttattt ttatttattt attttttga gatggagtct tgctctgtcg agtgagtcgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca aggaattct tttgtgttt tagtagagac gggttcact gtgttagcca gagtggtgtg atccgcgccc ccagaaatcga aaatttctag aaacgaaaag caggttcact gtgttagcca gggatggtgg agaatgagga ttaactgcaa acaagtgctg ggattacac gggttcaag gggatggtgg agaatgagga ttaactgcaa acaagtgtag gtgaactaaa aaggtatcaa agagaatcaa acaagtgtgg ggatacaaaa caggtatga ttgcacactc ataaatgtat taaaactcat tgaattatat acctacaaag agagaattca atagtagaa aattcatacc tctataaaac tggtttttt cagagagatt ggagagatta taaaactcat tgaattatat acctacaatg agtgggaattc atagttgaa aattcatacc tctataaaac tggtttttt cagagaaatca agagaattca agagaattca agagaatca agagaattca agagaatca agagaactag gaattattgc tatgtttta tccaagtgtgg gaattattgc tatgtttta tccaagtgtgg gaattattgc tatgtttta tccaagtgtgg gaattattgc tatgtttta tccaagtgtgg gaattatacc caacactttg ggagacctg tcctacaaa aacttttta ggaaattcaa gaccagcctg ggcaacatag ggagaccctg tcctacaaa aactttttta ggaaattcaa gaccagcctg ggcaacatag ggagaccctg tcctacaaa aactttttta ggaaattcaa gaccagcctg ggcaacatag ggagaccctg tcctacaaa aactttttta ggaagattcaa gaccagcctg ggcaacatag gagaaccctg tcctacaaa aactttttta ggaagattcaa gaccagcctg ggcaacatag gagaaccctg tcctacaaa aactttttta ggaagattcaa gaccagcctg ggcaacatag gagaaccctg tcctacaaa aactttttta ggaagattcaa gaccagccag gacacatag gagaacccag ctatactcg gaccagcaca gaccagcacaa gaccagacca	tgcattccag	tgccttgaat		aaaagctttt	cctgtcattt		88080
ttttagagca gaaacaagaa ctaccatctt gacaatatta agtetteeaa teeatggtae 8 agetaetttg gaaaacagtt tagtggttte ttaaaaagat gtacataage ttactgteag 8 agecageaat tteeeteeta agaatttaee eegagaaac aaaaatgtat gteeacacaa 8 agaettgtae aagaatttt atageageaa tattaataat agecagaact acaaatgate 8 taaaatgttt atttggtga ataaacaaat gtggtatatt catttaatgg atactgttat 8 eegagaaacgeaa teeteetaa teeteetaa tattaagttt tatgaatgaa acteeaaaac 8 atattaaagtg aaagaageaa gatgatatat gteegeatae ataggattet gtttatatge 8 agaaaacgea aatttattt ttatttattt attttttga gatggagtet tgetetgteg 8 aggagaacgea agtgaatgag egtgateteeg geteactgea acetteaeet eetggttea 8 aggaattee etggetaatt ttttggtgtt tagtaggage egggatggage egggatggage egggatggage egggatggage egggatgage egggatggage egggatgage egggatgage egggatggage eggatgage egggatgage eggatgage eggagaggage eggagaggaggaggaggaggaggaggaggaggaggaggag	ctttaaattc	aaaattatat	ttctaaaagt	gctggatttt	tttttttagg	cgtttcatca	88140
agctactttg gaaaacagtt tagtggtttc ttaaaaagat gtacataagc ttactgcag agccagcaat ttcactccta agaatttacc ccagagaaac aaaaatgtat gtccacacaa agacttgtac aagaattttt atagcagcaa tattaataat agccagaact acaaatgatc aaaaatgtt attttggtga ataaacaaat gtgggtatatt catttaatgg atactgttat ccattataca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac atataaagtg aaagaagcaa gatgatatat gtcgcatatc ataggattct gtttatatgc agaaaacgca aatttattt ttatttatt attttttga gatggagtct tgctctgcg agtggagtgg	aacgggtata	tgtgtcttta	ccaaatgagg	aggtatgtat	ctgtgtttga	atttttttg	88200
agccagcaat ttcactccta agaatttacc ccagagaaac aaaaatgtat gtccacacaa 6 agacttgtac aagaatttt atagcagcaa tattaataat agccagaact acaaatgatc 8 taaaatgttt atttggtga ataaacaaat gtggtatatt catttaatgg atactgttat 6 ccattataca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac 8 agaaaacgca aatttattt ttattattt atttttga gatggagtct tgctctgcg 8 agaaaacgca agtgatatt tattttga gatggagtct tgctctgcg 8 agtgattcc ctcaggctgg agtgcagtgg cgtgatccg gctcactgca accttcacct cctgggttca 8 aggattct tttggtttt taggaagac gggtttcact gtgttagca ggatggtgtg 8 accgcatatt tttgtgttt tagtagagac gggtttcact gtgttagca ggatggtgtg 8 accgcatccc ctcagcctc caaaagtgctg ggattacacg ggttgtcagg gtggagattg ggaatacga aaatttctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg 8 aggaatgaga ttaactgcaa acaggtatga gtgaactaaa aagtgttca aaactggatt 8 aggaatgaga ttgcacatct ataaatgtat taaaactcat tgaattata acttacaatg 8 aggagaattca atagtagatg aattcatacc tctataaaac tggttttta caaggagtgtg 8 agtgcaaattc atagtagatg aattcatacc tctataaaac tggttttta tccaggtgtg 8 aggagaattca gacaacatc caacacttt ggagagctgag gtgggagat cgcttgagcc 8 aggaattcaa gaccagcctg ggcaacatag ggagacctg tctctacaaa aacttttta 8 agaaattaac aggcatggtg gcacacatag ggagacctg tctctacaaa aacttttta 8 agaaattaacc aggcatggt gcacgtgcct ttggtccag ttactcgag ggctgagatg ggagaattca aggcatggt gcacacatag ggagacctg tctctacaaa aacttttta 8 agaaattaacc aggcatggt gcacgtgcct ttggtccag ttactcgag ggctgagatg ggagaattca ggcagagttg ttgaaccaa gacagctg gcacacatag ggagacctg tctctacaaa aacttttta 8 agaaattaacc aggcatggt gcacgtgcct ttggtccag ttactcgag ggctgagatg ggagagattg ttgaaccaa ggcatggtg gcacgtgcct ttggtcccag ttactcgag ggctgagatg ggagagattg ttgaaccaa ggcatggtg gcacgtgcct ttggtcccag ttactggag ggctgagatg ggagagattg ttgaaccaa ggaagattg ttgaaccaa ggcatgag gcacgtgcct ttggtccaa tcatagtgt gccctgcact ttgagcca ggagagattg ttgaaccacct ggaagattg ttgaaccaa ggcatgag gacatagag gacatagag gacatagag ggctgaagatg gccctgcact ttgagcca ggagagattg ttgaaccaccacacacacacacacacacacacacacacac	ttttagagca	gaaacaagaa	ctaccatctt	gacaatatta	agtcttccaa	tccatggtac	88260
agacttgtac aagaatttt atagcagcaa tattaataat agccagaact acaaatgatc Etaaaatgtt atttggtga ataaacaaat gtggtatatt catttaatgg atactgttat Eccattaaca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac gtggatatat gtcgcatatc ataggattct gtttaatgc agaaaacgca aatttattt ttattatt atttttga gatggagtct tgctctgcg Etcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca agtgatatt tttgtgttt tagtagagac gagttcact gtggagattg ccaccaggcc Etggctaattt tttgtgttt tagtagagac gggttcact gtgttagcca ggatgggtgt ttgccactgca accttcacct cctgggttca atccgccctc ctcagcctcc caaagtgctg ggattacacg gggttcact gtgttagcca ggatggtgtg cagaaatcga aaattctag aaacgtaaag cagatcagtg ggttgtcagg gtggaggttg ggaatgagga ttgcacactc ataaatgtat taaaactcat tgaattata acctacaatg ggtggaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata gtggtccacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacataa ggaggattcaa gaccagcctg ggcaacataa gaccagctg ggcaacataa aacttttta tcaagtgtgg gaattattcc tattataacc tctataaaac tggttttta tccaggtgtg gtgtccacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacataa ggagaccctg tcctacaaa aacttttta agaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcgga ggctgagatg ggaggattg ggaggattgc ttgaacccag gtaactaag gtaaccag ttactcgga ggctgagatg ggctgagatg ggaggattg ttgaaccaa aggcatggg gcacgtgcct ttggtcccag ttactcgga ggctgagatg ggcaggattg ggaggattg ttgaaccaa ggagattgc ttgaacccag gaatacgag ctatagtga ctatagttg gccctgcact ttggtccaa tatagttgt gccctgcact ttgaaccaa ggcaggattg ggcaggattg ggcaggattg ttgaaccaa ggagagattg ctatagtgag gccctgacat ttggtccaa ttactcgga ggctgagatg ggcaggagat cgctgagatg ggaggagattg ttgaaccaa ggagagattg ctatagtgag gcctgagatg ggcagagatg ggcagagattg ggaggattgc ttgaaccaa ggaatacaa gaccagcac ggaacaatag ggagaccctg tcatagatg ggccctgacacta ggagagattg ttgaaccaa gaccagcac ggaacaaaa gacagcaacaa gaccagcacaa gacagtgag gaccagagacacaa gaccagcacaacaacacaac	agctactttg	gaaaacagtt	tagtggtttc	ttaaaaagat	gtacataagc	ttactgtcag	88320
taaaatgttt atttggtga ataaacaaat gtggtatatt catttaatgg atactgttat ccatttataca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac attataagtg aaagaagcaa gatgatatat gtcgcatatc ataggattct gtttatatgc agaaaacgca aatttattt ttatttatt attttttga gatggagtct tgctctgtcg agtgattctc ctcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca agtgattctc ctgcctcagc ctcctgagta gctgggactg caggcatgtg ccaccaggcc agtgatatt tttgtgttt tagtagagac gggtttcact gtgttagcca ggatggtgtg atccgcctc ctcagcctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc aaattctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgaggat ttgcacatct ataaatgtat taaaactcat tgaattata acttacaatg agtggtgaaatc atagtagaa aattcatacc tctataaaac tggtttttg cagcaaaata agtgtctcac gtgttttag cagcaaaata atcggattcact gtgttttagca gtggtgagagt gtgtcacag gtggtgagagt gggtgacacaag ggagattcac gtggttttta tccaggtgtg gtgtccacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagccctg tctcacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtcccag gtcagagatg ggctgagatg ggcagaattca aggcatggtg gcacgtgcct ttggtcccag ttacccgga ggctgagatg ggaggattgc ttgaaccac aggcatggtg cacgtgcct ttggtcccag ctatgattgt gccctgcact aggaggattgc ttgaaccac aggcatggg gtataccag ggctgagatg ctatagttgt gccctgcact aggaggattgc ttgaaccac aggcatggtg ctatagtga ctatagttgt gccctgcact aggaggattgc ttgaaccag ggctgagatg ctatagttgt gccctgcact aggaggattgc ctatagatgg gccctgcact aggaggatggat ctatagatgg gccctgcact aggaggatga ctatagatga gccctgcact aggaggatga ctatagatga gccctgcact aggaggatga ctatagatga gccctgcactaga gccctgcactaga gccctgca	agccagcaat	ttcactccta	agaatttacc	ccagagaaac	aaaaatgtat	gtccacacaa	88380
ccattataca tgctgcatac tcacttcata tattaagttt tatgaatgaa actccaaaac 8 attataagtg aaagaagcaa gatgatatat gtcgcatatc ataggattct gtttaatgc 8 agaaaacgca aatttattt ttattattt attttttga gatggagtct tgctctgtcg 8 agtgattctc ctcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca 8 agtgattctc ctgcctcagc ctcctgagta gctgggactg caggcatgtg ccaccaggcc 8 agtgcaattt tttgtgttt tagtagagac gggttcact gtgttagcca ggatggtgtg 8 accgcccc ctcagcctc caaagtgctg ggattacag catgagtcac cgtgcccgc cagaaatcga aaattctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgagga ttaactgcaa acaggtatg gtgaactaaa aagtgttca aaactggatt gggggaatga ttgcacatct ataaatgtat taaaactcat tgaattata acctacaatg ggtgccaaatc atagtagtag aattcatacc tctataaaac tggttttta tccaggtgtg gtgtccacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctcacaaa aacttttta gaaattaacc aggcatggtg gcacactcg ttggtccacg ttggaccca aggaattcaa gaccagcctg ggcaacatag ggagaccctg tcctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtccag ttacctgga ggctgagatg ggcagaattc aggaattcaa gaccagcctg gcacactag ggagaccctg tcctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtccag ttactcgga ggctgagatg ggcagagatg ggcagagatg ggcagagatg ggcaggattgc ttgaacccag gataccag ctatagtgg ctatagtgt gccctgcact 8 agaaggaattca aggcatggt gcacgtgcct ttggtccag tcatagttg gccctgcact 8 agaaggaggatgc ttgaacccag gataccag gataccag ctatagtgg gccctgcact 8 agaaggaggatgc ttgaacccag gataccag gataccag ctatagtgg gcctgagatg gccctgcact 8 agaaggaggatgc ttgaacccag gataccag gataccag ctatagtgg gccctgcact 8 accgagagatgc ctatagtgg gccctgcact 8 accgagagatg ctatagtgg gcccactg gccctgcact 8 accgagagatg ctatagtgg gcccactgcact 8 accgagagatg ctatagatg gcccactgcact 8 accgagagatg ctatagatg gccactgcact 8 accgagagatg gccactgcactg gccactgcactg gccactgcactg	agacttgtac	aagaatttt	atagcagcaa	tattaataat	agccagaact	acaaatgatc	88440
attataagtg aaagaagcaa gatgatatat gtcgcatatc ataggattct gtttatatgc aagaaaacgca aatttattt ttattatt attttttga gatggagtct tgctctgtcg aggatgattcc ctcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca aggattctc ctgcctcagc ctcctgagta gctgggactg caggcatgtg ccaccaggcc aggtgatttt tttgtgttt tagtagagac gggttcact gtgttagcca ggatggtgtg atccgcctc ctcagctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc aacttcacct ctcagcctc caaagtgctg ggattacagg catgagtcac cgtgcccggc aactgagaatcga aaattctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgagga ttgcacatca acaggtatga gtgaactaaa aagtgttca aaactggatt gggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata acttataggtgtgtgtgtcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggaggccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcgga ggctgagatg gggaggattgc ttgaacccag ggaattcgag gtatacgag gtctgagatg ggcaggattgc ttgaacccag ggaattcaa ggcatggtg gcacgtgcct ttggtcccag ttactcgga ggctgagatg gggaggattgc ttgaacccag gatatcgag gtatacgag gtctgagatg gcctgagatg ggaggattgc ttgaacccag ggaattcgag gtatacgag gtctgagatg ggctgagatg ggcaggattgc ttgaacccag gatatcgag ctatagtgag ctatagttg gccttgcact acatgattgc gatatagtg gcctgcact acatgattgc gatatagtg gccttgaacca ggcaggattgc ttgaacccag gatatcgag ctatagtgag ctatagattg gccttgcact acatgatgag gatatagatg gcctgcact acatgatgag gatatagatg gcctgcact acatgatgag gcctgaacatag ggcaggattgc ttatagatga gcctgcact acatgatgag gcctgaacatag gcctgaacatag ggaggattgc ttatagatga gcctgcact acatgatgag gcctgaacatag gcctaacatag gcctgaacatag gccacacatag gccacacatag gccacacatag gccacacatag gccac	taaaatgttt	attttggtga	ataaacaaat	gtggtatatt	catttaatgg	atactgttat	88500
agaaaacgca aatttattt ttattatt attttttga gatggagtct tgctctgtcg ctcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca agtgattctc ctgcctcagc ctcctgagta gctgggactg caggcatgtg ccaccaggcc ggatggtatt tttgtgtttt tagtagagac gggtttcact gtgttagcca ggatggtgtg atccgcctc ctcagcctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc cagaaatcga aaattctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgagga ttaactgcaa acaggtatg gtgaactaaa aagtgttca aaactggatt gggggaaattc atagtagatg aattcatacc tctataaaac tggttttta tccaggtgtg gtgtctcacg cctataatcc caacacttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtccag ttaccggag ggctgagatg ggcggagattg ttgaactcaa ggcacgtgc ttggtccacg cctataatcc aggcacatag ggagaccctg tctctacaaa aacttttta ggaaattaacc aggcatggtg gcacgtgcct ttggtccag ctatgattg gccctgcact aggaggattgc ttgaacccag ggtaaccag ctatagtgag ctatagtgt gccctgcact aggaggattgc ttgaacccag ggcacgtgcc ttggtccag ctatgattg gccctgcact aggaggattgc ttgaacccag gatatcgag ctatagtgag ctatagttg gccctgcact aggaggattgc ttgaacccag gatatcgag ctatagtgag ctatagttgt gccctgcact accaccact ggagggattgc ctatagttgt gccctgcact aggaggattgc ttgaacccag gatatcgag ctatagtgag ctatagttgt gccctgcact	ccattataca	tgctgcatac	tcacttcata	tattaagttt	tatgaatgaa	actccaaaac	88560
ctcaggctgg agtgcagtgg cgtgatctcg gctcactgca accttcacct cctgggttca 8 agtgattctc ctgcctcagc ctcctgagta gctgggactg caggcatgtg ccaccaggcc 8 agtgctaattt tttgtgtttt tagtagagac gggttcact gtgttagcca ggatggtgtg 8 atccgcctc ctcagcctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc 8 agaatgagga taactgaa acaggtatga gtgaactaaa aagtgttca aaactggatt gggatgaggat ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg ggtggaaattc atagtagatg aattcatacc tctataaaac tggttttta tccaggtgtg ggtgtcacc caacacttt ggagaattcaa gaccagcctg ggcaacataa ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacataa ggagaccctg tcctacaaa aacttttta gaaattaacc aggcatggt gcacgtgcct ttggtcccag ttactcgga ggctgagatg ggagggattgc ggagggattgc ttgaacccag gatatcgag ctatagtga ctatgattgt gccctgcact 8 aggaagttgc ttgaacccag ggcaacatag ggaggaccctg tcctacaaa aacttttta ggaagttgc ttgaacccag gatatcgag ctatagtgag ctatgattgt gccctgcact 8 aggaagttgc ttgaacccag ggcaacatag gcacgtgcc ttggtcccag tcctacaaa accttttta 8 aggaagttgc ttgaacccag gatatcgag ctatagtgag ctatgattgt gccctgcact 8 accttcacaa aggcatggt gcacgtgcc ttggtcccag ttactcagaa ggctgagatg ggagggattgc ttgaacccag gatatcgag ctatagtgag ctatagttgt gccctgcact 8 accttcacaaa accttttta 8 accttaccaa aggcatggt gcacgtgcc ttggtcccag ttactcagaa ggctgagatg ggagggattgc ttgaacccag gatatcgag ctatagtgag ctatagttgt gccctgcact 8 accttcacaaa accttttta 8 accttaccaaaa accttttta 8 accttaccaaaaa accttttta 8 accttaccaaaaaaaaaa	attataagtg	aaagaagcaa	gatgatatat	gtcgcatatc	ataggattct	gtttatatgc	88620
agtgattete etgecteage etectgagta getgggaetg caggeatgtg ceaceaggee 8 tggetaattt tttgtgttt tagtagagae gggtteaet gtgttageea ggatggtgtg 8 ateegeete eteageetee caaagtgetg ggattacagg catgagteae egggeeegge 8 ggaatgagga ttaactgeaa acaggtatga gtgaactaaa aagtgtteta aaactggatt gggatgaagga ttgecaete ataaatgtat taaaacteat tgaattatat acttacaatg gggtgaaatte atagtagatg aatteataee tetataaaae tggtttttg cageaaaata ggggaatteeae gtgteeegge gaattatge gtgteeegge tttattgeta tgttttatt caagtgtggt gaattattge tatgtttta teeaggtgtg gtgteeegge aggaatteaa gaceageetg ggeaacatag ggaggeeggag gtgggaggat egettgagee aggaatteaa gaceageetg ggeaacatag ggaggeeegg teeteaaaa aacttttta gaattaace aggeatggt geaegtgeet ttggteeeag ttaetegga ggetgagatg ggetgagatg ggaggattge ttgaaceeag gatategag etatagtga etatgattgt geeettgagee ggagggattge ttgaaceeag gatategag etatagtga etatgattgt geeettgagee ggagggattge ttgaaceeag gatategag etatagtgag etatgattgt geeettgagee 8 ggagggattge ttgaaceeag gatategag etatagtgag etatgattgt geeettgagee 8 ggagggattge ttgaaceeag gatategag etatagtgag etatgattgt geeettgaeet 8 ggagggattge etatgattgt geeettgaeet 8 ggaggattge etatgattgt geeettgaeet 8 gatatgaggatge etatgattgt geeettgaeet 8 gatatgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeettgaeett	agaaaacgca	aatttatttt	ttatttattt	atttttttga	gatggagtct	tgctctgtcg	88680
tggctaattt tttgtgtttt tagtagagac gggtttcact gtgttagcca ggatggtgtg atcogcctc ctcagcctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc aaaatcga aaatttctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgagga ttaactgcaa acaggtatga gtgaactaaa aagtgttcta aaactggatt gggtggaagat ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg ggtgaaattc atagtagatg aattcatacc tctataaaac tggttttta cagcaaaata ttaattgcta tgttttatt caagtgtggt gaattattgc tatgtttta tccaggtgtg gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggt gcacgtgct ttggtcccag ttactcggga ggctgagatg ggagggattgc ttgaacccag gatatcgagg ctatagtgg ctatgattg gccctgcact aggaggttgc ttgaacccag gatatcgagg ctatagtgag ctatgatgt gccctgcact	ctcaggctgg	agtgcagtgg	cgtgatctcg	gctcactgca	accttcacct	cctgggttca	88740
atccgcctc ctcagctcc caaagtgctg ggattacagg catgagtcac cgtgcccggc 8 cagaaatcga aaatttctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg 8 ggaatgagga ttaactgcaa acaggtatga gtgaactaaa aagtgttcta aaactggatt 8 gtggtgatga ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg 8 ggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata 8 gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc 8 aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta 8 gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcgga ggctgagatg 8 ggaggattgc ttgaacccag gatatcgagg ctatagtga ctatgattgt gccctgcact 8 ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8	agtgattctc	ctgcctcagc	ctcctgagta	gctgggactg	caggcatgtg	ccaccaggcc	88800
cagaaatcga aaatttctag aaacgtaaag cagatcagtg ggttgtcagg gtgagagttg ggaatgagga ttaactgcaa acaggtatga gtgaactaaa aagtgttcta aaactggatt gtgggtgatga ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg ggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata tttattgcta tgttttatt caagtgtggt gaattattgc tatgtttta tccaggtgtg gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggaa ggctgagatg ggagggattgc ttgaacccag gatatcgagg ctatagtgag ctatagtgt gccctgcact ggcaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact	tggctaattt	tttgtgtttt	tagtagagac	gggtttcact	gtgttagcca	ggatggtgtg	88860
ggaatgagga ttaactgcaa acaggtatga gtgaactaaa aagtgttcta aaactggatt gtggtgatga ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg ggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata tttattgcta tgttttatt caagtgtggt gaattattgc tatgtttta tccaggtgtg gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgct ttggtcccag ttactcgga ggctgagatg ggaggattgc ttgaacccag gatatcgag ctatagtgag ctatagttgt gccctgcact ggagggattgc ttgaacccag gatatcgagg ctatagtgag ctatagttgt gccctgcact	atccgccctc	ctcagcctcc	caaagtgctg	ggattacagg	catgagtcac	cgtgcccggc	88920
gtggtgatga ttgcacatct ataaatgtat taaaactcat tgaattatat acttacaatg ggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata tttattgcta tgttttatt caagtgtggt gaattattgc tatgtttta tccaggtgtg gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggga ggctgagatg ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact aggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact	cagaaatcga	aaatttctag	aaacgtaaag	cagatcagtg	ggttgtcagg	gtgagagttg	88980
ggtgaaattc atagtagatg aattcatacc tctataaaac tggtttttg cagcaaaata 8 tttattgcta tgttttatt caagtgtggt gaattattgc tatgtttta tccaggtgtg gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta gaaattaacc aggcatggtg gcacgtgct ttggtcccag ttactcggga ggctgagatg ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8 ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8 g	ggaatgagga	ttaactgcaa	acaggtatga	gtgaactaaa	aagtgttcta	aaactggatt	89040
tttattgcta tgttttatt caagtgtgt gaattattgc tatgtttta tccaggtgtg g gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc g aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta g gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggga ggctgagatg g ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact g	gtggtgatga	ttgcacatct	ataaatgtat	taaaactcat	tgaattatat	acttacaatg	89100
gtgtctcacg cctataatcc caacactttg ggaggctgag gtgggaggat cgcttgagcc 8 aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta 8 gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggga ggctgagatg ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8	ggtgaaattc	atagtagatg	aattcatacc	tctataaaac	tggttttttg	cagcaaaata	89160
aggaattcaa gaccagcctg ggcaacatag ggagaccctg tctctacaaa aacttttta 8 gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggga ggctgagatg 8 ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8	tttattgcta	tgtttttatt	caagtgtggt	gaattattgc	tatgtttta	tccaggtgtg	89220
gaaattaacc aggcatggtg gcacgtgcct ttggtcccag ttactcggga ggctgagatg 8 ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8	gtgtctcacg	cctataatcc	caacactttg	ggaggctgag	gtgggaggat	cgcttgagcc	89280
ggaggattgc ttgaacccag gatatcgagg ctatagtgag ctatgattgt gccctgcact 8	aggaattcaa	gaccagcctg	ggcaacatag	ggagaccctg	tctctacaaa	aacttttta	89340
	gaaattaacc	aggcatggtg	gcacgtgcct	ttggtcccag	ttactcggga	ggctgagatg	89400
ccagcetggg taacagcaca agaceetgte teaatataaa agaagaaaag aateattaat 8	ggaggattgc	ttgaacccag	gatatcgagg	ctatagtgag	ctatgattgt	gccctgcact	89460
	ccagcctggg	taacagcaca	agaccctgtc	tcaatataaa	aaaagaaaag	aatcattaat	89520

tctgaaatta	gactgaatga	tcatttttta	atattttca	gacaagacta	cttttgctta	89580
aaaatctgtt	atgtaaacaa	ggaagtccat	tgacccaaaa	agaactagca	caacttgcta	89640
ggtgagtaat	ttggatttgg	tttatcttac	agcttttatt	tattttttgt	aaataattct	89700
ttttttagtt	atttaaagta	atcttaagta	tgaaatgagt	aattcattga	tcagaagact	89760
ttctctcatc	ctctacctcc	tttgcctttt	tcttacctct	tgttcttata	tatatatgtg	89820
gaatctaaat	ttcactggct	atgtcctttg	caagacgtga	tctaatgatg	atagtatatt	89880
ctttttataa	atttattaaa	acctgtaagt	ggtattaaag	taatttaaac	atttacacct	89940
taggcaacat	ggtaaaaccc	catctctaca	aaaaataaaa	tgagtcagga	atggtggcac	90000
atacctgtag	tcccagctac	ttgggaggtt	gatgtgggag	gatcgcttca	gcccgggagg	90060
tggaggttga	gcaacagagt	gagaccctgt	ctcaaaaaaa	attttaaaca	tttcatattg	90120
cacactaaca	cagatatttt	tatataaact	tgttcttggc	atatgctgaa	tacttttcag	90180
ctcttttaat	aattttaatt	atttgataat	tttaataatt	ttaatttcag	ctatttgaat	90240
aatcttaaac	tttatgaaca	gtgtgaagta	gaaactgagt	ataggagatg	cgctcatgaa	90300
ttttattccc	tgaaaaatgt	cataaagtaa	tataaagtat	tcaatgagta	tgtgagtatt	90360
gaataatttt	aacaagaact	ctgagttccc	agatacctat	gacaaaagaa	caaattactt	90420
ggaagtctct	tctactccag	acctttctgt	ctatcccctt	atttaaaaaa	atgtacattg	90480
attgtccctt	atcccatcaa	gagagtgttc	tttgccaaga	taaacgctaa	ttagagaagt	90540
aattgtgttt	atgtgtcagt	tggccaccag	tagtttgtag	atgttacctt	tccaggtgac	90600
atgtttacaa	tttaatgaag	cctctggaga	tagtatgcct	taatctaaag	gaatggttct	90660
aatgattaaa	atttgaggca	ttactacatt	tgttttcagc	aaatgggcct	ttctattccc	90720
ttaaaatcaa	accctcataa	ctatgggttt	gctgacaaag	ggaaactagt	ttttactctt	90780
attatatgga	gattttaaat	ctgcagagat	gaaaataatt	tgctgtttca	gctgggtgcg	90840
gtggctcatg	cctgtaatct	cactactttg	ggaggctgtg	gcgggtggat	cacctgaggt	90900
caggagttcg	agaccagcct	gaccaacatg	gcgaaacgcc	atctatacta	aatacaaaaa	90960
aaaaattagc	caggtgcggt	ggcgcatgcc	tataatccca	gctacctgag	aggctgaggt	91020
aggagaatcg	ctccaggagg	tggagatcac	agtgagctga	gatcatgċca	ttgcactcca	91080
gcctgggcaa	caagagcaaa	actccatctc	aaaaaaaagc	gggaggggaa	ataatttgct	91140
gtttcttcct	tcccttcctc	agaatgactg	atggatactc	aggaagtgac	ctaacagctt	91200

tggcaaaaga	tgcagcactg	ggtcctatcc	gaggtaggta	tacaagagct	taaaacattt	91260
agaactattt	attataccac	cttagaagtt	taagaagtcc	aaaaaaatct	accaagagat	91320
ttttttttc	ttttggagac	agggtctcac	tctgttgccc	aggctgtagt	gcagtggcac	91380
aatcatagtt	cactgcagcc	tcgaaccccc	caggctcagg	tgattctccc	acccagcctt	91440
cccagtagct	gggactacag	gcatgcacca	tcatgcccag	ataattattt	tattttattt	91500
cttgtagaga	cagggtttca	ccatgttgcc	caagctggtc	ttgaactccc	gggctcaagt	91560
gagcagcctg	ccttggcctc	ccaaagtgct	gggattacag	gcatgagcca	ccatgcccag	91620
ccttaaaacc	attcttagct	cacagatcat	acaaaaacag	tctatgagcc	agtagactgt	91680
gacccctgtt	ctaggcaaga	ggtttcattt	cttgatagta	agtaagcagc	agaaaactca	91740
aaaagaaaac	tttaaacaaa	aaagaataat	gtaaggaaaa	tgttcttatc	tgttttctgg	91800
ctcttttcag	tattctgaca	tcatttgaaa	ttaatgtgtc	taaaggaaat	tctataagag	91860
aagttttcac	ttttttaatt	atatcttttg	agggattgca	gcaaaatatt	tattgctatg	91920
tttttattca	ggttacttgg	ttgattctga	aataccacga	ccaattcttt	ttaggttagg	91980
ttaggataaa	ctcacacaga	tattttcagc	tacatttcca	cagccagcat	cggtagtgga	92040
tggttgatgc	tctcaggtat	gcactcagat	tattagctat	gatgataaag	taatcataat	92100
agctccatcc	ctttctctca	ttcaagaaag	tacaattgaa	tgtagttgta	cgagaaagat	92160
gttatcatag	tgtctactgt	aatttgcatt	aaaagcctac	attatacaaa	cctttttgtt	92220
ttactagtta	aaaattacca	gtaacacctc	ccgtagtgaa	atagggtgct	gattaagaac	92280
tgctactttg	caaaataaaa	aatgtaatct	tgagagtata	ttttgaaact	ctggatgaac	92340
aaattttctt	gctgctggag	cttaaatctt	gttcagttag	tggatttaga	aacagtagct	92400
aatgcataaa	tgagttgtat	tttcttagaa	cgttttggct	attctaaggt	agacaaaatt	92460
tgggtttaaa	aaaagattcg	catccattaa	agtacagaaa	atggccgggt	gcagtggctc	92520
acacctataa	tcccagcact	ttgggaggcc	aaggtgggag	gatcgtgtgg	gcctaatagt	92580
ttgagactag	actgggcaac	atagggagat	cctgtctcta	caaaaaaata	taataaatta	92640
accaggcccg	ttggcatgag	cctgtaatcc	cagctactcg	ggagtctgaa	gtaggaggat	92700
cacttgagcc	tggaaggtgc	aggcagcagt	gagccatggt	catgccactc	actgcactcc	92760
agcctgggtg	ggtgacatag	tgaggtgctg	tcttaaaaag	taaataaata	ggccaggcac	92820
ggtggctcac	gcctgtaatc	ccagcacttt	gggaggccaa	gatgggtgga	tcatgaggtc	92880
aggagttcga	gaccagcttg	gccaatatgg	tgaaaccgca	tctctactga	aaatacaaaa	92940

attagccagg	cgtggttgtg	cgcacctgta	atcccagcta	ctcaggaggc	tgaggcagga	93000
gtatcgcttg	aacctgggag	gtgaggttgc	agtaagccga	gcactgcagc	ctgggcaaca	93060
gagcaagact	ctgtctcaaa	aaaaaaaaa	aaaaaaaaa	aaaaaagtaa	atacataaag	93120
tgcagagtaa	aaacaaaaaa	agactaatgc	attttgtaaa	gaacaagttg	cattctttta	93180
agttcccttt	caaatttgtg	aactattgtt	tttgggcagt	atgcaagaaa	ttgaacactt	93240
tccagttatt	ccaaagaagg	aatattctct	tctcagcatt	tataaattgt	atttgctctc	93300
aaagttaaca	tgtgtctctt	ttttttaata	taatgatttg	tactgaatag	atacatgtag	93360
atcattgtac	ttggttttgc	ccttcaacaa	tttcaactgc	aaaatgtatg	tatttttaag	93420
tgcctgactt	ttatgtttta	cagaactaaa	accagaacag	gtgaagaata	tgtctgccag	93480
tgaggtatag	tattttacaa	tgatattttc	tttgtcttct	atattgtaag	acatatataa	93540
gacatacata	tatgaatgtg	tgtgtgtgtg	gtttttttt	tttttttt	ttttttgaga	93600
cagtctggca	tgatatcggc	tcactgcaac	ctccacctcc	tggattcaag	ctattctcct	93660
gcctcagcct	cccaagtagc	tacaggcatg	taccaccaag	cccagctaat	ttttgtattt	93720
ttagtagaga	gggcatttca	ccatgttggc	cagtctggcc	tcagactcct	gacctcaagt	93780
gatccaccca	actcggcctc	ccaaagtgct	gggattacag	gcttgagccg	ctgcatctgg	93840
ctgttttgtt	tgtttgtttg	tttgtttgtt	tgtttgagac	ggagtctcac	tctgtcgccc	93900
agactggagt	gcagtggtgc	gatctcagct	cactgcaagc	tctgcctccc	gggttcacgc	93960
cattctcctg	cctcagcctc	cctagtagct	gggactacag	gcgcccacca	ccacgcctgg	94020
ctaattttt	gtacttttag	tagagacggg	gtttcaccgt	gttagccagg	atggtctctg	94080
tctcctgatc	tcgtgatctg	cctgcctcag	cctcccaaag	tgctgggatt	acaggcgtga	94140
gccactgcgc	ccggcctttt	tttttttt	tttttgagac	acagggtctt	gctctgttct	94200
caggctggag	tgcagtggtg	caatcgtggc	tgactgtagc	cttgacctct	tggtctcaag	94260
cagtcctctt	gtctcaaact	ttttagtagc	tgggactaca	ggcaagtgcc	acaacgcccc	94320
actaatttt	taattttctg	tagagatggt	gtctctccct	gttgcccagg	gtggtctcag	94380
actcttggcc	tcaagtaatc	ctcctgcctc	agtctctcag	agtgcttggg	actaattttt	94440
tttaatggat	ttttctagtt	gattagaagc	tagaaaaaat	taactttgct	tcatttcaaa	94500
atatggaaac	ctatgaaata	gtcaaaattt	tttttggtaa	tagacaaaac	atatatacat	94560
aaagtcattt	tctatcaaat	catattacat	aaataccaaa	cagaagaaaa	ttacaggccg	94620

ggtgcggtgg	ctcacgcctg	taatcccagc	actttgggag	gccgaggtgg	gcagatcact	94680
tgaggtcagg	agttcaagac	cagcctggcc	aacatggtga	aaccctgtct	ctatcaaaaa	94740
tacaaaaaaa	ttaggccggg	ggcggtggct	cacacctgta	atcccagcac	tttgggaggc	94800
cgaggcgggc	ggatcacgag	gtcaggagat	cgagaccatg	ctggctaaca	tggtgaaacc	94860
ctgtctccac	taaaaaatac	aaaaaaatta	ccggggcgtg	gtggcgggca	cctgtagtcc	94920
cagctacttg	ggaggctgag	gcaggagaat	ggcgtgaacc	tgggaagtgg	agcttgcagt	94980
gagccgagat	cgtgccactg	cactccagcc	tgggcgacag	agcaagactc	catctcaaaa	95040
aaaaaaaaa	atagctgggc	atggtggcac	gtgcctgtgg	tcctggctac	ttgggaagct	95100
gaggcaggag	aatcacttga	acttgggagg	cagaggttgc	agtgagccaa	gattgcccca	95160
ttgcactcta	gcctgggcga	cagagtgaga	cccagtctca	aaaaaaaaa	aattacatga	95220
aacttgtggg	ggtttataca	ataaaaataa	cctataacta	tacgttaatc	ctttaataat	95280
gttctatttt	gtttttcaat	aacctttatt	tttttaatta	atttcttttt	tttgagaagg	95340
actctggctc	tgtcacccag	gctgcagtgc	agtggcacca	tcttggctca	ctgcagcctc	95400
cacctcccag	gttcaagcga	ttctcctgcc	tcagcctcct	gcgtagctga	gattacaggc	95460
atgggccacc	acgcccagct	aattttttt	ttttttgtat	ttttagtaga	gatggggttt	95520
cactatgttg	gccaggtggg	tctcgaactc	ctgacctcag	gcgatcgcca	gcctcggcct	9558Q
ccctaagtgc	aaggattaca	ggcgtgagcc	accatgcctg	gccaatttat	taccgtttct	95640
taatatggaa	gacctcctta	tgagatgctg	aagcatttca	tttgaaaaaa	gttgcatgta	95700
aaatataaaa	ttgggtatgc	agaatggtca	taactctgtg	agcaaaattt	tgaaatcagg	95760
cttgaattac	agtcagcctt	ttctatccgt	ggattctgca	ttcatggatt	caaccaactg	95820
cagatcaaaa	atacttgggg	gaaaaaagca	tctgtgttga	acatgtacag	acttttattc	95880
ttgttattat	tccctaaaca	atatagtata	aaaactattt	acattgcatt	tacattgtat	95940
taggtgttat	aagtaatcta	gagatgattt	aaagtataca	ggaggattgt	gtaggttgta	96000
tgcaaatact	gcaccatttt	acataaggga	ctttaagcgt	ttgcggattt	tgctatctat	96060
gggggaacca	atttccgaga	gatactgagg	gacagctgta	tatttgtaac	ttatttttta	96120
tttccctaat	tgcagcagct	gttgagggga	cagtgaactg	ttaacacaga	taacaagtgt	96180
attcaagtac	attttggagt	ttgtttgttt	tttttttca	ggcttttatt	cgcctgtcgg	96240
atgaggcacc	atacttgaat	tttttttt	aagaaagctt	ttagttttct	ttctttcttt	96300
tttttttt	gtgagatgga	gtcttgctct	gtttctaggc	tggagtggag	tgcagtggtg	96360

tgatctcagc	tcactgcaac	ctccgcctac	tgggttcaag	tgattctcct	gcctcagcct	96420
cccgagtagc	tgggactaca	ggtgcacgcc	accacgccca	gctaattttt	tttttttt	96480
ttttttttg	tatttgtagt	agagacagag	tttcaccatg	ttggccagga	tggtctcgat	96540
ctcctgacct	tgggatccgc	ccaccttggc	ctcccaaagt	gctagggatt	acaggcatga	96600
gccaccacgc	ccggctgaaa	gcttttagtt	ttctaactta	tttaatttaa	tttaatttaa	96660
tttattttta	ttttatttt	tgggacagtg	tctcacttgg	ttgcccaggc	tggagtgcag	96720
tggtacaatc	atggctcact	gcaccctcta	gctcctgggc	tcaggcaatc	ctcctgcctc	96780
agccttttga	gttgctggga	ctacgggcat	gtaccaccac	actcagctaa	atttttaatt	96840
ttttgtagag	atggggtctc	actatgttgc	ctaggctggt	ctcagattcc	tcaagcattc	96900
ctcccacttg	cacctcccaa	aatgctggga	ttacaggtgt	gacaccgtgc	cagacttgaa	96960
atttttaatc	ccacacctaa	aaatataatt	ttatccacca	ttttttaaaa	gtcataacat	97020
tatttattaa	aaatttagat	ggtaaaacta	aaaattaaag	cttaataaaa	ctactgagtg	97080
atttacaagg	aagaatatta	ctggtccctt	ttgtgagcat	cccattaatt	atatatattc	97140
aggttatatt	gttacaatat	ttggttctac	tgtatacttt	tttttttgag	actgagtttc	97200
gctgttgttg	cccaggctgg	agtgcaatgg	tgcaatctcg	gctcactgca	acctccgcct	97260
cctgggttca	agtgattctc	ctgcctcagc	ctcctgagta	gctgggatta	caggcatgcg	97320
ccactatgcc	tggctaattt	tgtgtttttg	tagagacggg	gtttcactat	gttggtcagg	97380
ctgatctgga	actcccaacc	tcaggagatc	cgcccacctc	ggcctcccaa	agtgctggga	97440
ttgcaggtgt	gagccaccat	gcctggctct	actatatact	ttcattcagt	tgtttctttt	97500
taatctagtg	gttttggtat	taataatttg	ataatgacct	ttagctgtta	ttgcttactt	97560
atgagttaat	atttataaag	cacttaaagt	agctggcacg	tagtaaacac	tatgtaaaga	97620
tccattaaat	aactttaaaa	aatataaaac	tgatagtggc	attttattat	agagattaag	97680
gtaatccatt	ctctcatttc	catttatggg	atgagacgta	aacacaagta	gtttgctctc	97740
taaaactgta	tactagaatt	ttatataccc	attatttgat	gcaactttaa	taccaaagtg	97800
tattgtcagt	taccggtgaa	tatatataaa	tttaggtaag	gaaaacccaa	cttggtcgca	97860
cacagtggct	cacgcctgta	atcctaccac	tttgggaggc	cgaggcagtt	ggatcacctg	97920
aggtcttgag	ttcgagacca	gcctggccaa	cgtggcgaaa	ccccgtctcc	actaaaaata	97980
caaaaattag	ccgggcgtgg	tggcacatgc	ctgtaatccc	agctgctcgg	gaggctgagg	98040

aaggagaatt	gcttgaacct	ggggaggtgg	aggttgcagt	gagctgagat	cgtaccactg	98100
cactccagtc	tgtgcgacag	gagcgagact	ccatctccaa	aaaaaaaaa	aagaaaaacc	98160
caacttatct	tttacagttt	ataatagtag	aagttcaaat	aattggtttg	gaatttctgt	98220
atttttaagg	ttagtactaa	aattgttggt	tataaattgg	ggtacaatat	actttgtttt	98280
ttaagtacct	tgtgtatcta	atttaacttt	aagtccttta	ttattttggt	ttgataagac	98340
aacttttcta	cttatttccc	cccttaactg	aaccagctac	catctgcctt	tttcctgttg	98400
tatacattag	tctcttacgt	taaaatatca	tataagtttc	atatatatac	acatatcaaa	98460
ctatagactt	aaagtacaat	tacatcaaca	tcttttaaaa	ccttaatttc	tggccaggcg	98520
tggttgttca	tgcctataat	cccagcactt	tgggaggctc	aggccattgg	atcccttgag	98580
ctcaggaatt	cgagaccagc	ctggataaca	tggtgaaatc	ctcatctcta	caaaaattac	98640
aaaaagttag	ctgggcgtgg	tggcgcacac	ctatagtcct	agctacttgg	gaggatctct	98700
taagcctggg	aggcagaggt	tgcagtgagc	cgagatcatg	ccactgcact	ccagcctggg	98760
taacagtgag	accctgtctc	aaaacaaaaa	tattaatttc	tataacaaat	aaattttatt	98820
tagtaatatc	atgtttaata	cccatgttac	attcattatt	cttctacact	ttggccttta	98880
ggaagaggca	gtgtgtgtgt	tacagttaaa	taggaaacaa	gtägggttca	tatagtgctt	98940
atggggtttt	ctttggtggg	gggttgctgg	gtttttgggg	tttttttt	tgagacaggg	99000
tatcactctg	tctcccaggc	tgaaatacat	tggcatgctc	atggctcact	gcagcctcaa	99060
cctcccagac	tcaagtgatc	ctcccacctc	agcttcccta	gtagctgaga	ctacaggcgt	99120
gcgccaccat	gcctagctaa	attttgtaca	ttttgtagag	atgaggcttt	gccatgttgc	99180
ccaggctggt	ctctaactcc	tgggctcaag	tgatccactt	gcttcagcct	cccaaagttc	99240
tgggattaac	aggtgcgagc	cactgcagcc	agcctatatt	ttaactatat	gtttttttct	99300
ttttggctaa	aatttttcag	attagtttac	aagttacaag	tgtaggtgat	atctcatgga	99360
gatatcaaag	atgatatgaa	gttagattgg	gtttttaaga	gtagttttta	aaatacggat	99420
aaataccagt	tgttggagtt	ttgtttaaag	ttctttaact	tcttatttt	gggccaaaat	99480
acaggtatac	gctagaaatg	atttttaaca	caggtcattt	atgccaaact	gcattttgcc	99540
ttaattttt	tttttttt	tttttttgag	agggagtctc	actcattgcc	caagctggag	99600
tgcaatggca	cgatctcggc	tcacttacaa	cctccacctc	ccaggttcaa	gcgattctcc	99660
tgcctcagcc	tcctgagtag	ctgggattac	aggcacctgc	ctggctaatt	tttgtatttt	99720
tagtggagac	ggggtttcac	catgttggcc	aggctggtct	cgaactgctg	acctcaggtg	99780

atccacccgc	cttggcctcc	caaagtgcgg	ggattacagg	tgtgagccac	cgtgcttggc	99840
caaaattttt	attaatttt	ctattgcctg	gactctgtga	acctatccat	tttgcctttt	99900
aaaaatactt	aggtgtaaat	atagatattc	attaactcag	cattgtttta	atctatattt	99960
ccaaaggcaa	tttaaaagat	cagaaaataa	gaccaaatta	atataaaaat	gcatacttta	100020
ggctgggcaa	agtggctcac	gtctgtaatc	ccagcacttt	gggaggccaa	ggtgggcgga	100080
tcacctgagg	ttaggagttc	aggaccaacc	tggccatcat	ggcgaaaccc	tgtctctact	100140
aaaaatacaa	aaattagctg	ggcatggagg	catgtgcctg	taatcccagc	tactcgggag	100200
gctgagacag	aagaattgct	tgaaccttgg	agggggaggt	tgcatatctg	agtggtgaaa	100260
ttgtgattct	ttttttctct	ttgtctgtat	ttttgaactt	ttctataaat	gattgtgttt	100320
tgtttttata	ttggaaaaat	attatgcttt	caaatgttaa	tacctatgaa	actaaacaca	100380
agtaataaat	atattagtat	agcatttatt	aaggtttctt	gtgtagcaga	tcaacataga	100440
aaatatattt	aaatggctga	cataattttc	taagaataca	tacacgtata	ttttttataa	100500
cattaagaaa	cagcagcatc	attactttaa	tccatcattt	cgttaaccac	catatacctg	100560
ttgatcattt	gtattgtcat	gtgcttttta	aaaatctaga	tgagaaatat	tcgattatct	100620
gacttcactg	aatccttgaa	aaaaataaaa	cgcagcgtca	gccctcaaac	tttagaagcg	100680
tacatacgtt	ggaacaagga	ctttggagat	accactgttt	aaggaaatac	ctttgtaaac	100740
ctgcagaaca	ttttacttaa	aagaggaaac	acaagatctt	caatgaacgt	catcggctac	100800
agaaacagcc	taagtttaca	ggacttttta	gagtcttaca	tatttgtgca	ccaaacttga	100860
agatgaacca	gaaaacagac	ttaaacaaaa	tatacaatgc	aaatgtaatt	ttttgttgtt	100920
taaggccttg	ccttgatggt	cacagttatc	ccaatggaca	ctaagttaga	gcacaacaaa	100980
acctgattct	ggtcttcttt	accaatataa	tcataatgta	aataataatt	tgtatattgt	101040
gttgcagatg	aaagtattcc	aggaacagtg	aatggtagaa	gacacaagaa	catttgtttg	101100
tttgtcttct	gatgttttt	cttaaaatag	taatttctcc	tacttttctt	ttctactgtt	101160
gtcttaacta	caggtgattg	gaatgccaaa	cactcttaag	tttattttct	tttttcgttt	101220
tataaattca	gtgtgccaaa	tgaaactttt	ttcctaagta	actgtaatag	gaaaaagttt	101280
attttgagag	tttcttcttc	ataaatctac	agacattaaa	caattgttgt	gttcttttta	101340
ccttttattt	ttctattacc	ttgctaccaa	acagtttaga	tagcaatata	atagcaaaaa	101400
agcaaatatg	gtaaaataga	gaaggtttga	aggtttgagt	tactctgtca	tataacatgt	101460

agatcagtct	tcatgtgacc	tgcagtattt	ttttttctaa	tgtatttgtc	agaaatctgt	101520
tgtagactgt	taacttcttc	ctgatggaat	ttattttctg	caagaattat	tctgatattt	101580
aagagagcca	attttaactg	ctgtgaaaat	gtttccagtg	caagagaagg	gaaatactag	101640
gaactaagac	atttctaatt	tattgcttat	tactttctta	attttacagg	ataattataa	101700
gcaagtggaa	ctaccatctt	ttattcttaa	taattattaa	tcccttcaat	gaaactttaa	101760
aaaaactgaa	tttttataca	tggcatacat	ttttctagtt	ccttctgctt	gctttattaa	101820
ctcaaaagtt	ctagttctag	tctgttgatc	tgccttttgt	tctcccaaaa	tgtacagtaa	101880
ttccatttgt	ttgtataaat	atgcctggat	tttcattata	aaaatgtcat	tgtagggagt	101940
agagactcat	atcatggcct	tttaaatatt	gtaataaagg	caaatagata	tttgccctta	102000
gtttactggt	taaaagtttg	tttacagaac	ttttctctgg	tgcttaaatg	atgctatgta	102060
aaatgtcatg	agtggaaaga	atatttgtag	tagtaacaag	aatttttcat	ttaggaaaga	102120
tttcttaggt	tttgaaagaa	tacattaaaa	taaaaaactt	gcccctacta	ggtaagaact	102180
ttataatgaa	gacatacatt	cttcttaatt	ttactcttgc	tcttgttaaa	gatttgtttg	102240
aatatagaag	atgcatgatt	tctgggtttt	tttttttt	tgagacagag	tttcgctctt	102300
gttgcccagg	ctggagtgca	atggcgcaat	ctcgactcac	cacaacctcc	gcctcccagg	102360
ttcaagcaat	tctcctgcct	cagcctcccg	agtagctggg	attacaggca	tgcgccacta	102420
ccccagctaa	ttttgtattt	ttagtagaga	tggggtttct	ccatgttggt	caggctggtc	102480
ttgaactcct	gacctcaggt	gatccgcctg	cctcggcctc	ccaaagtgct	gggattacag	102540
gcataagcca	ctgcgcccag	ccagaagatg	catgatttct	taggatcata	tgctgtttgt	102600
agccataagg	taaatcatgt	ctcttccaat	catgactttg	gaactccctg	aataataaaa	102660
atgagagttg	agataaatag	gggaaaaaaa	attttttca	agccagagct	atgcatatgt	102720
taggtgatgg	gtagtatccc	tttaaggtct	caaacattac	aacatcaatt	atgaaatact	102780
gataacgaaa	ggtagtaatg	aaatatatat	gatgaaaaga	attgagaagt	tctaaattaa	102840
gacatttcag	ttaagctcat	aaaatttcat	tgttttcatt	taaaagatta	acgttattga	102900
tacttggata	actggctaat	catattaaag	gactatgtgg	ttccagctca	acttttaata	102960
tattgtctcc	tttaaaacta	tcatggttat	aattctattg	ggaaagactt	ttagataaca	103020
aagatttcaa	atgttaaaag	agataaaagt	caggttaata	ctatcttaaa	cactgagtca	103080
gaaaatcatt	actgtataga	agttgctttc	ctgatcaagt	ctgaacttca	gctagtgcta	103140
gagaactatt	ttctatgact	taactctaac	caagttttat	tttaagctgt	ttctttgata	103200

gaagggccat	gaaaatagag	taatgatata	gtaggagata	agggattggt	ttggtctttt	103260
tcaataaaga	tagaagttgc	tgaagttttc	tgaattaata	atgacttaga	ttgtgacctt	103320
ttagattcgg	tgttgagctc	tgtgttgtat	tacttcctaa	aagataatgc	ttaaacatta	103380
agcattagtg	tgctcttcat	gttaatatgg	cagagttttg	taaactaaat	taaaacttac	103440
tgatatattg	gactttgagc	caagggaaag	aatgagtact	atctttccag	atatcttaag	103500
ggtaaaagct	tattctaaga	cagtctgtcc	attgagaata	ttagatttct	gacttgcaaa	103560
tatgtttgta	ctccagaaga	attagaggaa	aagcagatac	tagaattcta	atttaattac	103620
atatacagcc	gtctttgttt	atagtgtaga	attctttata	ttttgtacaa	aaactaattc	103680
ttttggtaaa	atgaaccatt	tacagttcgg	ttttggactc	tgagtcaaag	gattttcctt	103740
taaatgcttg	tctcaatttt	agtctggtct	tttgtacttt	tcttcagaag	aaatgaatta	103800
aagggtacag	ttgcataaag	tgggttttta	tcctaatgta	ttggaaataa	atgataaact	103860
ttattttgtc	tttacttttt	tactttaaaa	ctttttgata	ttttaggggt	tggagtctga	103920
taatgaagga	gttgtgtgta	ttggactctt	agtaacaatt	ataaacgctt	aacaaaatat	103980
agaaagcaat	gattgggtgg	ctctgcagag	caatcaaaac	aaggtagaaa	ctgcaaagtc	104040
ctataatgga	agagattcag	gctgggtgtg	gtggctcatg	cctgtttggg	aggccagtat	104100
gggagaatcg	cttacactca	ggaattcaag	accagcctgg	ggaatatagg	gagaccctgt	104160
ttctgccaaa	aaaaaaaaa	aaaaaaaaac	taaactaaaa	attagccagg	tttggtggcc	104220
tacacctgta	gtcccggtta	ctcaagaggc	tgaggttaga	ggatcgctta	agcccgggag	104280
gaggaggttg	cagtgagcca	agatcacacc	accacactcc	agcccaggtt	acagagaacc	104340
tgtctcaaaa	aataaaaagt	aaacgagatt	caccttaacc	agcttttacc	catagggcaa	104400
tttccagttt	gtgcagttca	cttggatata	gaattcaggt	agaatgtgac	agttttgaca	104460
ggctgaggaa	tcatttggga	cttctagaac	acctgaaaat	tagaagagaa	attttgggaa	104520
ggagagtgcc	tcagaaagta	agctctaaaa	tctgcctaca	tattcctttc	aaatccttgg	104580
tggattccaa	aattgtgctg	gtgcagtgtg	attatttaaa	ggaacccagg	agaaagcaag	104640
ttaaagtcta	aaaaactcag	cagcgattgc	agctgcccaa	ggacagagag	tttgaaattc	104700
aagttccact	aagaaggact	gagtaaatac	ttggtgtttc	ccattgaacc	cccaaaatgc	104760
cacgccttaa	ggaagaatga	cagcatccta	gaactaaagg	ctgtgcttca	gcactaagga	104820
caaaatggaa	ataaacttac	tgtaatgaag	cttaaaatca	aatctcacag	catcaaggtt	104880

atccattagt	aatttaaaac	cagaacaaaa	cacagcattc	ttgagaagaa	aacaattcag	104940
tcatcacagc	atatatccaa	agctcagtac	ataataaaca	gttactaagc	atgcaaagaa	105000
aaattatgtg	atccttttga	ctcaacttcc	ctgatggaaa	aaaaaagtg	gtccatacca	105060
tactcaacag	aaaatataca	gaagcagatg	cacaagtgac	ctctatgaga	gtgattttaa	105120
aatagcgtta	aaatatgtta	aaagaattta	caagaagaga	taatgggtga	atagataggg	105180
agtttcagca	gaaaaataag	aattgaaaac	ccaacagagg	ccaggcaccg	tgcctcacgc	105240
ccgtaatcac	agcactttgg	gaggccaagg	caggtggatc	acctaaggtc	aggagttcaa	105300
gaccagcctg	accaacatgg	tgaaacccgg	tctctactaa	aaatacaaaa	ctagccgggc	105360
atgggtgatg	catgcccata	atcctagcta	cttgggaggc	tgaagcagga	gaattgcttg	105420
aacctgggag	gtagaggttg	cagtgaacca	agatcatgcc	attgcactcc	agcctgggca	105480
agaagagcaa	aactccatct	caaaaaataa	taataataat	tggctgggcg	cggtggctca	105540
cgcctgtaat	cccagcactt	tgggaggccg	agacaggcag	atcacaaggt	caggagattg	105600
agaccatcct	ggctaacatg	gtgaaacccc	gtctctacta	aaaatacaaa	aaattagcct	105660
ggcatggtgg	cgggcacctg	tagtcccagc	tactcgggag	gctgaagcag	gagaatggca	105720
tgaccccagg	aggcggaact	tgcaatgagc	ccagatcgcg	ccactgcact	ccagcctggg	105780
caaccgtctc	aaaaataata	ataataataa	ttagaaaata	ataaaaaata	acccactgga	105840
aagtcttgta	atgaaaacta	cagtatctga	aattaaaaat	ttaaatggat	ggacttaaca	105900
gtaaactagg	cacaacagga	aagactgaaa	aagacaagta	agtatcaaac	caaagcagag	105960
agagaaagaa	aaaagaaata	gcagaggttt	gagacctttg	gaacattatc	agttcctgta	106020
atttgaagta	aagaaggaaa	ggaagagaat	ggggcaagag	aaatctttga	agcaatgatg	106080
cgtgaaattt	tccccaaagt	gttgaaagac	atcaacgtac	agatctaaga	agttcactga	106140
atccccaagc	agaataaata	caacaaagac	tacatctggg	tacatcacat	tgccaaaaaa	106200
aaaaaaaaa	aaaatcttaa	aagcaatcaa	ggtggggagt	gggaaggagt	agcattácat	106260
tcagataaac	aagagtgatg	gctaacctca	tcagaaatga	tggaattaag	aaaatgatgg	106320
aatgacatct	ttaaggtgca	aagatgaaac	aaaggttaac	ttaaaactct	gtatccagtt	106380
aaaatatcct	tcaagatgtt	aaggcaatgg	ccaggctcag	tggcttatgc	ctgtaatccc	106440
aacactttgg	ggggctgaga	caggagaatc	ccttgaggcc	atgagtgacc	agcctgggca	106500
acctagtgag	aaccccatca	aaaaataaaa	ttagctgggc	atgggctgtg	gtcgtgctac	106560
tgcactccag	cctgggggac	agagtcccta	tctcttgaaa	aacttaagac	aaaatctttt	106620

ccagatgaaa	acagaatttg	ttgctggcag	actgacttta	tacggaatgc	tttaagaaat	106680
0009009						
tcttcaggct	gaaggaaaat	ataaatctgg	agtgaaaaac	gtagtatctg	aaattaaaat	106740
tttccttgga	tggacttatc	agtaaatgga	tttcccaatg	ggaacctgta	tctccaggat	106800
ggaattaaga	attttgaaat	gataaacatg	ttggtaaata	agaaagacat	ttttctttt	106860
tatttttcta	aatatcattg	ctgtttaaag	caaacaaaaa	tagtattgca	gtgtttataa	106920
tatatgtata	agtaaaatat	aggacagaaa	tagcatgaag	ggtcagagag	ggcaataaat	106980
gtaattatat	tgagataata	ttactatatt	gtacacaaag	tgagatagca	ttagtgtaag	107040
gtagattgtg	ataagaatgc	attttgtaat	ctctcacccc	atcactgggg	tgcagtagat	107100
ctaaaaagcc	attagagaag	ataaaatggg	tcactaagaa	ttatgtgatt	agtcaaatga	107160
aatcaaggaa	agaaaaacag	agcaaagaag	tgtaagataa	aacagtggga	tggaagagct	107220
gaaattaata	atgtcactaa	attgcttacc	ttcctccttc	ctgaactgtt	gṭggattttt	107280
ttttttcag	ggggttgagg	ttttttttta	gagacagagt	ctctattgcc	ccaggctgga	107340
cagcagtggc	gtaatcagtc	tcaaaatccc	tgcagtctca	aactcctggg	ctcaagtgat	107400
cctcctgcct	cggcctccca	aaatgctggg	attacaggca	ggcagagcca	ccacaccctg	107460
ccagaactat	tgttttaaag	tcattaggtg	gttaagccct	cgagactatg	tgcaagtttg	107520
atgattcgtt	aggagcactc	acaggactca	gcatatagtc	ttattcccaa	caatgattta	107580
ttagagcaaa	aggatatgaa	gcaaattcag	caaagggaaa	aaaggaatta	agtgaagtcc	107640
agaggaaacc	aagcaccagc	ttctaagggt	tctctcctaa	tgaagtcaca	caggatgtca	107700
ctccagcaac	aagtgacagc	atgtgaaagt	gttaagcctc	actgttagac	atagtaagct	107760
tgttagggaa	tagagggaat	ctcccctcaa	attcaagttc	ccagatgcct	ggcaagggcc	107820
aaccttgcca	gcaggacttt	ctggggatag	cagtcccagg	cacgtgtttg	cacagtggtt	107880
cagatcaatg	tgcttacatt	gggtagaggg	gacctatgga	agtccaaatt	tgggtgtcag	107940
agacctaata	gggtgaagac	agtgtctaca	atgatggaca	gctaggtatg	aggtgtcagg	108000
gacagattga	ggcagttatt	cacatggtgg	ataggggcaa	cctggaatga	ggaataagct	108060
caagcacaga	aaggggtgtc	catatggggt	aagggtgtca	gcagagatgg	tagattggtt	108120
gcacaccaaa	gacttgatgg	aataaagtga	atatactaac	cacagagaag	gtaattataa	108180
atacagaaag	gggggaaact	agaatgaaac	ctggagttca	gcttgaattg	ggtttaagaa	108240
agtgaattca	tggtttaaaa	tctataaaaa	tagatgaaat	atcggctggg	cacagtggct	108300

cacgcatata	atcccagcac	tttgggaggc	cgaggcgggc	agatcgcttg	agatcaggag	108360
tttgagacca	gcctggccaa	cactgcgaaa	ccccatctct	agtaaaaata	caaaaattag	108420
ccaggtgtgg	tggtacacac	ctgtagtccc	agctacttgg	gaggctgagg	cacgagaatc	108480
acttgaacct	gggaggcaga	ggttgcagtg	ggctgagatc	gcaccactgc	actccagcct	108540
gggcaacaga	gcgagatcct	gcctcaaata	aaaatagagg	acatataagc	atataaatat	108600
acacgtgtgt	atgtgtccaa	atatgtatat	tccctagtct	gtccaccaag	gtggccttgg	108660
agcagttatg	ctccaataat	aatgagcaca	taaagtaccc	atatcttgcc	ttccaaattc	108720
ttcactgtct	tagtctgctt	gggctgcatt	acaaaatacc	atagactggg	cagcttaaat	108780
aacagaaatt	tatcctcaca	gttctagaag	cttggaagtc	caagattaaa	gtaccagcca	108840
gtttggtttc	tagtgagggc	tttcttcctg	gcttgcagat	ggccaccttc	tcaccgtgtc	108900
cttgtatggc	agacagcaca	agctctctgg	tgtccctttt	taaaagggca	ttaatcccat	108960
catgacagtc	ccatcctcat	tatctcatct	aaccctaggt	acttcccaaa	ggctgaatca	109020
ccaaagacca	tcacattgct	ggtgaaggct	tcaacatatg	aatttgaggg	acacgaatat	109080
tcagtccata	acatcaacta	aaggaaccaa	gactctttga	taaaatggct	aaattcaggg	109140
ctggggcaga	gaaaatacat	gagtgtggaa	cttcttgtgc	cagagagaaa	aagtgcccaa	109200
agattgatga	ggatgaatca	ttgaaatgac	acacagatta	aaagggttcc	cactggacaa	109260
atttgagcat	caaaataagt	aatagtagta	attaattata	acccatcaga	agaaataaac	109320
catgagctca	tgtgaatata	tgaatacaaa	cataaacaaa	ttacaagcat	aatgaggaat	109380
gtgatattta	tatggtttaa	aggtacctct	ccaggccggg	tgcagtaact	ctcacctgta	109440
atcccagcac	tttgggaggc	caaggcaggt	agatcacctg	aggtcaggca	tttgagacca	109500
gcctgcacaa	catggtgaaa	ccctgactct	actaaaaata	cataacgcga	gccgggcgtg	109560
gtggcacgtg	tctataatct	gccactgatt	aggtgtgtga	ttttcccaag	caggggataa	109620
tagtagtacc	tatgtcaaag	gctgttatga	ggattaaatg	agctaacaca	taatcgtgct	109680
tttttttt	tttttttt	ttgagacaga	gtcttgcact	gtcgcctggg	ctggagtgca	109740
atggcacgat	ctcggcccac	tgcaacctct	gcctcccagg	ttcaagtgat	tctcctgcct	109800
cagcctcctg	agtagctggg	attacaggct	cctgccacca	cacctggcta	ttttcaatag	109860
agacggggtt	tcactatgtt	ggccaggcta	gtctcaaaaa	cctgacctcg	tgatccaccc	109920
gctttggcct	cccaaagtgc	tgggattaca	ggcatgagcc	actgcacccg	gcttttttt	109980

tttttttttg agatggaatc 110000

<210> 2 <211> 3263 <212> DNA <213> Homo sapiens

<400> 2 60 cacgggggtc tgtggccccc gccgtagcag tggctgccgc gctcctgaga ccggcgggca 120 gcggcggcgg cagtgagagc gcgggttatg ttcccgtcgg tctgcgggag cgtcgcttgg 180 agaagaaagg ctccggcggc gccagcaacc ttctccgggt ggacgaggga tgtgaatgaa 240 ccctcccgcc gccgggccgg tggcccccgc ccccttgcc cggtgcctcc caggcctccg 300 ccgctgtttg cataagcgga acctgtacta tttctcctac cgagtcgccg cccctccgcc 360 gtgtggctct gctcctcttc tccacctggg taggcttcgc gctgctgcgt ttggtcgcct 420 gcgccagcac ctccggggcc ccaagaggag ctcatggcag gccagcgctt ctcccgcgcc 480 gtccgagtct ggccgagcgc gcgccggtgc cgggcggcga ctcggccccg ctgcctcggc 540 catcgatgag gatgagaaag ttgccctgcg tacatctcca ggccttcgag tccacaaaca 600 ctggaaaaag gtggaatggt ataagaaagg tattgaagaa ggagcaagct caggacagaa 660 cgccttcaag aagagctaga aacagtgtga tatagttaca ggacaaggtg gaatagctgt 720 acaacttcta gagaagatgc aggaccgctt gttatggcca ctaaaatgat gactaatttg 780 actaacttgg taatgacagt cggacgtcta aagtcacaaa aaccagtttt gccattttcc 840 cagtcagaaa gtggagctgt tccaaaaaga aaagacccct tggacatctc catgccgcaa ggatctgcag 900 ctgcctcgtt caaaaacagt tatgaaaact taacacacac tagtaattca 960 atccatggtt tctggagtga gcacctagtt acagtggttt ccaccataga gcctttcagg 1020 aataggacaa tccgaaaaca tggtcctgct cctaccactc ataagggtac aacagggatc 1080 agacttgaag aattttagga gtaagaaaaa actgctactc ataaaccttc tacccctaca 1140 ggaacagctg tgtggacaat caaccttgct aaccttataa tgaatgaaat atgtggacag 1200 gaaattgtta agcattgcaa ggtcaagact tggcaaaaca ttaaatttga tgatatagct 1260 gagttgttca cagggcttag agagggctgt agctcctgcc ttcttccttc tctgaggcct gctgcagaat 1320 taaagcagta caatgctggc aatgggaaga tactctttgg tccacctggg 1380 caagtttaac ttcaaaatac gtgggagaag ataagtgctg cttctttaat cgaatgcaac ctttttgctg tggctcgaga acttcaacct tctataattt 1440 gagagaaatt ggtgagggct

ttatagatga	agttgatagc	cttttgtgtg	aaagaagaga	aggggagcac	gatgctagta	1500
gacgcctaaa	aactgaattt	ctaatagaat	ttgatggtgt	acagtctgct	ggagatgaca	1560
gagtacttgt	aatgggtgca	actaataggc	cacaagagct	tgatgaggct	gttctcaggc	1620
gtttcatcaa	acgggtatat	gtgtctttac	caaatgagga	gacaagacta	cttttgctta	1680
aaaatctgtt	atgtaaacaa	ggaagtccat	tgacccaaaa	agaactagca	caacttgcta	1740
gaatgactga	tggatactca	ggaagtgacc	taacagcttt	ggcaaaagat	gcagcactgg	1800
gtcctatccg	agaactaaaa	ccagaacagg	tgaagaatat	gtctgccagt	gagatgagaa	1860
atattcgatt	atctgacttc	actgaatcct	tgaaaaaaat	aaaacgcagc	gtcagccctc	1920
aaactttaga	agcgtacata	cgttggaaca	aggactttgg	agataccact	gtttaaggaa	1980
atacctttgt	aaacctgcag	aacattttac	ttaaaagagg	aaacacaaga	tcttcaatga	2040
acgtcatcgg	ctacagaaac	agcctaagtt	tacaggactt	tttagagtct	tacatatttg	2100
tgcaccaaac	ttgaagatga	accagaaaac	agacttaaac	aaaatataca	atgcaaatgt	2160
aattttttgt	tgtttaaggc	cttgccttga	tggtcacagt	tatcccaatg	gacactaagt	2220
tagagcacaa	caaaacctga	ttctggtctt	ctttaccaat	ataatcataa	tgtaaataat	2280
aatttgtata	ttgtgttgca	gatgaaagta	ttccaggaac	agtgaatggt	agaagacaca	2340
agaacatttg	tttgtttgtc	ttctgatgtt	ttttcttaaa	atagtaattt	ctcctacttt	2400
tcttttctac	tgttgtctta	actacaggtg	attggaatgc	caaacactct	taagtttatt	2460
ttctttttc	gttttataaa	ttcagtgtgc	caaatgaaac	ttttttccta	agtaac <u>tg</u> ta	2520
ataggaaaaa	gtttattttg	agagtttctt	cttcataaat	ctacagacat	taaacaattg	2580
ttgtgttctt	tttacctttt	atttttctat	taccttgcta	ccaaacagtt	tagatagcaa	2640
tataatagca	aaaaagcaaa	tatggtaaaa	tagagaaggt	ttgaaggttt	gagttactct	2700
gtcatataac	atgtagatca	gtcttcatgt	gacctgcagt	atttttttt	ctaatgtatt	2760
tgtcagaaat	ctgttgtaga	ctgttaactt	cttcctgatg	gaatttattt	tctgcaagaa	2820
ttattctgat	atttaagaga	gccaatttta	actgctgtga	aaatgtttcc	agtgcaagag	2880
aagggaaata	ctaggaacta	agacatttct	aatttattgc	ttattacttt	cttaatttta	2940
caggataatt	ataagcaagt	ggaactacca	tcttttattc	ttaataatta	ttaatccctt	3000
caatgaaact	ttaaaaaaac	tgaattttta	tacatggcat	acatttttct	agttccttct	3060
gcttgcttta	ttaactcaaa	agttctagtt	ctagtctgtt	gatctgcctt	ttgttctccc	3120

aaaatgtaca gtaattccat ttgtttgtat aaatatgcct ggattttcat tataaaaatg 3180
tcattgtagg gagtagagac tcatatcatg gccttttaaa tattgtaata aaggcaaata 3240
gatatttgcc cttagtttac tgg 3263

<210> 3

<211> 616

<212> PRT

<213> Homo sapiens

<400> 3

Met Asn Ser Pro Gly Gly Arg Gly Lys Lys Lys Gly Ser Gly Gly Ala

1 5 10 15

Ser Asn Pro Val Pro Pro Arg Pro Pro Pro Pro Cys Leu Ala Pro Ala 20 25 30

Pro Pro Ala Ala Gly Pro Ala Pro Pro Pro Glu Ser Pro His Lys Arg 35 40 45

Asn Leu Tyr Tyr Phe Ser Tyr Pro Leu Phe Val Gly Phe Ala Leu Leu 50 55 60

Arg Leu Val Ala Phe His Leu Gly Leu Leu Phe Val Trp Leu Cys Gln 65 70 75 80

Arg Phe Ser Arg Ala Leu Met Ala Ala Lys Arg Ser Ser Gly Ala Ala 85 90 95

Pro Ala Pro Ala Ser Ala Ser Ala Pro Ala Pro Val Pro Gly Gly Glu 100 105 110

Ala Glu Arg Val Arg Val Phe His Lys Gln Ala Phe Glu Tyr Ile Ser 115 120 125

Ile Ala Leu Arg Ile Asp Glu Asp Glu Lys Ala Gly Gln Lys Glu Gln 130 135 140

Ala Val Glu Trp Tyr Lys Lys Gly Ile Glu Glu Leu Glu Lys Gly Ile 145 150 155 160

Ala Val Ile Val Thr Gly Gln Gly Glu Gln Cys Glu Arg Ala Arg Arg 165 170 175

Leu Gln Ala Lys Met Met Thr Asn Leu Val Met Ala Lys Asp Arg Leu 180 185 190

Gln Leu Leu Glu Lys Met Gln Pro Val Leu Pro Phe Ser Lys Ser Gln 195 200 205

Thr Asp Val Tyr Asn Asp Ser Thr Asn Leu Ala Cys Arg Asn Gly His 210 215 220

Leu Gln Ser Glu Ser Gly Ala Val Pro Lys Arg Lys Asp Pro Leu Thr 225 230 235 240

- His Thr Ser Asn Ser Leu Pro Arg Ser Lys Thr Val Met Lys Thr Gly
 245 250 255
- Ser Ala Gly Leu Ser Gly His His Arg Ala Pro Ser Tyr Ser Gly Leu 260 265 270
- Ser Met Val Ser Gly Val Lys Gln Gly Ser Gly Pro Ala Pro Thr Thr 275 280 285
- His Lys Gly Thr Pro Lys Thr Asn Arg Thr Asn Lys Pro Ser Thr Pro 290 295 300
- Thr Thr Ala Thr Arg Lys Lys Lys Asp Leu Lys Asn Phe Arg Asn Val 305 310 315
- Asp Ser Asn Leu Ala Asn Leu Ile Met Asn Glu Ile Val Asp Asn Gly 325 330 335
- Thr Ala Val Lys Phe Asp Asp Ile Ala Gly Gln Asp Leu Ala Lys Gln 340 345 350
- Ala Leu Gln Glu Ile Val Ile Leu Pro Ser Leu Arg Pro Glu Leu Phe 355 360 365
- Thr Gly Leu Arg Ala Pro Ala Arg Gly Leu Leu Leu Phe Gly Pro Pro 370 375 380
- Gly Asn Gly Lys Thr Met Leu Ala Lys Ala Val Ala Ala Glu Ser Asn 385 390 395 400
- Ala Thr Phe Phe Asn Ile Ser Ala Ala Ser Leu Thr Ser Lys Tyr Val 405 410 415
- Gly Glu Gly Glu Lys Leu Val Arg Ala Leu Phe Ala Val Ala Arg Glu 420 425 430
- Leu Gln Pro Ser Ile Ile Phe Ile Asp Glu Val Asp Ser Leu Leu Cys 435 440 445
- Glu Arg Arg Glu Gly Glu His Asp Ala Ser Arg Arg Leu Lys Thr Glu 450 455 460
- Phe Leu Ile Glu Phe Asp Gly Val Gln Ser Ala Gly Asp Asp Arg Val 465 470 475 480
- Leu Val Met Gly Ala Thr Asn Arg Pro Gln Glu Leu Asp Glu Ala Val 485 490 495
- Leu Arg Arg Phe Ile Lys Arg Val Tyr Val Ser Leu Pro Asn Glu Glu 500 505 510
- Thr Arg Leu Leu Leu Lys Asn Leu Leu Cys Lys Gln Gly Ser Pro 515 520 525
- Leu Thr Gln Lys Glu Leu Ala Gln Leu Ala Arg Met Thr Asp Gly Tyr 530 540

Ser Gly Ser Asp Leu Thr Ala Leu Ala Lys Asp Ala Ala Leu Gly Pro 545 Ile Arg Glu Leu Lys Pro Glu Gln Val Lys Asn Met Ser Ala Ser Glu 570 Met Arg Asn Ile Arg Leu Ser Asp Phe Thr Glu Ser Leu Lys Lys Ile 585 Lys Arg Ser Val Ser Pro Gln Thr Leu Glu Ala Tyr Ile Arg Trp Asn 600 Lys Asp Phe Gly Asp Thr Thr Val 615 <210> 4 <211> 23 <212> DNA <213> Artificial sequence <220> <223> Primer <400> 4 23 cggagctcct cttggctgcc atg <210> 5 <211> 26 <212> DNA <213> Artificial sequence <220> <223> Primer <400> 5 26 agaagcgctg gcagagccac acgaag <210> 6 <211> 27 <212> DNA <213> Artificial sequence <220> <223> Primer <400> 6 27 aaggcgacca aacgcagcag cgcgaag <210> 7

<211> 26 <212> DNA

<213> Artificial sequence		
<220> <223> Primer		
<400> 7 aggagcaagc tgtggaatgg tataag		26
<210> 8 <211> 27 <212> DNA <213> Artificial sequence		
<220> <223> Primer		
<400> 8 tggttatggc caaggaccgc ttacaac		27
<210> 9 <211> 26 <212> DNA <213> Artificial sequence		
<220> <223> Primer	•	
<400> 9 caaacggacg tctataatga cagtac		26
<210> 10 <211> 25 <212> DNA <213> Artificial sequence	• .	
<220> <223> Primer		
<400> 10 ttaggaatgt ggacagcaac cttgc		25
<210> 11 <211> 25 <212> DNA <213> Artificial sequence		
<220> <223> Primer	·	
<400> 11 cttctctgag gcctgagttg ttcac		25

<210><211><212>	27	
<213>	Artificial sequence	
<220> <223>	Primer	
<400> tgctag	12 gaatg actgatggat actcagg	27
<210> <211> <212> <213>	24	_
<220> <223>	Primer	
<400> agatgo	13 cagca ctgggtccta teeg	24
<210> <211> <212> <213>	26	
<220> <223>	Primer	
<400> atgaad	14 egtea teggetacag aaacag	26
<210><211><211><212><213>	19	
<220> <223>	Primer	
<400> tagcaq	15 gtggc tgccgccgt	19
<210><211><212><212><213>	20	
<220> <223>	Primer	
<400>	16	

aagcggtcct tggccataac	20
<210> 17 <211> 19 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 17 ggcggcagtg agagctgtg	19
<210> 18 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 18 ctagctcttt cacactgttc	20
<210> 19 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 19 aacaggcctt cgagtacatc	20
<210> 20 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 20 ctgtgaacaa ctcaggcctc	20
<210> 21 <211> 20 <212> DNA <213> Artificial sequence	
<220>	

<223> P	rimer	
<400> 2	1	
atgagaa	agc aggacagaag	20
<210> 2		
<211> 1		
<212> D	artificial sequence	
\Z13> N	ittiitotai boquomoo	
<220>		
<223> P	rimer	
<400> 2	2	
tgccaag	rtct tgaccagc	18
<210> 2	23	
<211> 2		
<212> D		
<213> A	artificial sequence	
<220>		
<223> P	Primer	
<400> 2	23	
ctacaac	etgc tactcgtaag	20
<210> 2	24	
<211> 1		
<212> D		
<213> A	Artificial sequence	
<220>		
<223> P	Primer	
<400> 2	24	
cagtgct	gca tcttttgcc	19
<210> 2	25	
<211> 2		
<212> D		
<213> A	Artificial sequence	
<220>		
<223> F	Primer	
<400> 2	25	
	gtg gacagcaacc	20
<210> 2	26	
<211> 2	20	
2010× *	¬\17	

<213> Artificial sequence			
<220> <223> Primer			
<400> 26 aaagctgtta ggtcacttcc			20
<210> 27 <211> 20 <212> DNA <213> Artificial sequence			
<220> <223> Primer			
<400> 27 tggagatgac agagtacttg			20
<210> 28 <211> 19 <212> DNA <213> Artificial sequence			
<220> <223> Primer		,	
<400> 28 ctggaatact ttcatctgc			19
<210> 29 <211> 19 <212> DNA <213> Artificial sequence			
<220> <223> Primer			
<400> 29 atgaggetgt teteaggeg			19
<210> 30 <211> 20 <212> DNA <213> Artificial sequence			
<220> <223> Primer			
<400> 30			20

<210> <211> <212> <213>	21	,
<220> <223>	Primer	
<400> caaag	31 tcgac agctacagtg c	21
<210><211><211><212><213>	20	
<220> <223>	Primer	
<400> ggaac	32 tgtag ttgagtggga	20
<210><211><212><212><213>	19	
<220> <223>	Primer	
<400> agatg	33 aggct ccgacctac	19
<210><211><212><213>	20	
<220> <223>	Primer	
<400> aatgc	34 cacac ttgtaatctc	20
<210><211><211><212><213>	22	
<220> <223>	Primer	
	25	

tgtgaatata tcataatttg gg	22
<210> 36 <211> 19 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 36 tacagcagtt ctcatgatg	19
<210> 37 <211> 21 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 37 gaccaaattg gtgcatgcat g	21
<210> 38 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 38 acatttccaa tacatcccac	20
<210> 39 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 39 atttgtcatt tcacatgcac	20
<210> 40 <211> 20 <212> DNA <213> Artificial sequence	
<220>	

<223>	Primer	
<400> ttagaa	40 atgac tatacctgac	20
<210><211><211><212><213>	18	
<220> <223>	Primer	
<400> tcaggt	41 ctaag taagactc	18
<210><211><211><212><213>	19	
<220> <223>	Primer	
<400> ttccta	42 atcta cctagtgac	19
<210><211><211><212><213>	20	
<220> <223>	Primer	
<400> tttta	43 tagca agttgccctg	20
<210><211><211><212><213>	19	
<220> <223>	Primer	
<400> cctat	44 gaaga tootggtao	19
<210><211><211>	20	

<213> Artificial	sequence			
<220> <223> Primer				
<400> 45 tgtcatgatt ctaaca	aggg			20
<210> 46 <211> 20 <212> DNA <213> Artificial	sequence .			
<220> <223> Primer	·		•	
<400> 46 tctatttcac tcctga	catg			20
<210> 47 <211> 19 <212> DNA <213> Artificial	sequence			
<220> <223> Primer				
<400> 47 gtcatagggc ttaggc	ttc			19
<210> 48 <211> 20 <212> DNA <213> Artificial	sequence			
<220> <223> Primer				
<400> 48 atcatactac ccactt	ttcc			20
<210> 49 <211> 20 <212> DNA <213> Artificial	sequence			
<220> <223> Primer				
<400> 49	acta			20

<210> 50 <211> 21 <212> DNA <213> Artifi	icial sequence		
<220> <223> Prime	:		
<400> 50 ctactgaaga t	caacgtacat g		21
<210> 51 <211> 20 <212> DNA <213> Artif:	icial sequence		
<220> <223> Prime	r		
<400> 51 cattgattgc (catgtattgg		20
<210> 52 <211> 20 <212> DNA <213> Artif	icial sequence		
<220> <223> Prime:	r		
<400> 52 agaaggccag	aaatactcag		20
<210> 53 <211> 22 <212> DNA <213> Artif	icial sequence		
<220> <223> Prime	r	·	
<400> 53 gtacttaaat	cggtaaatat gg		22
<210> 54 <211> 20 <212> DNA <213> Artif	icial sequence		
<220> <223> Prime	r		
<400> 54			

ctcaagtct	t aggaat	gcag			20
			•		
<210> 55 <211> 20 <212> DNA <213> Art		sequence		·	
<220> <223> Pri	mer				
<400> 55 gcacttaac	c aggctg	tatg			20
<210> 56 <211> 19 <212> DNA <213> Art		sequence			
<220> <223> Pri	.mer				
<400> 56 ctcagatga	ıc tcacat	agc			19
<210> 57 <211> 22 <212> DNA <213> Art		sequence			
<220> <223> Pri	.mer		÷		
<400> 57 ctttactag	ga ctaatt	ctcc tg			22
<210> 58 <211> 20 <212> DNA <213> Art		sequence		·	
<220> <223> Pri	mer				
<400> 58 cagattcaa	ıg aagaca	gatc			20
<210> 59 <211> 20 <212> DNA <213> Art		sequence			
<220N					

<223> Primer	
<400> 59 gcaataattc accacattg	20
<210> 60 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 60 ggtagttctt gtttctgctc	20
<210> 61 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 61 caagtgtggt gaattattgc	20
<210> 62 <211> 19 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 62 gagctgaaaa gtattcagc	19
<210> 63 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Primer	
<400> 63 tgcaaaggac atagccagtg	20
<210> 64 <211> 20 <212> DNA	

<213>	Artificial s	sequence	•			. ,
<220> <223>	Primer	·				
<400> agccto	64 ctgga gatagta	ıtgc	,			20
<210> <211> <212> <213>	20	sequence				
<220> <223>	Primer					
<400> ctagaa	65 acagg ggtcaca	ıgtc				20
<210><211><211><212><213>	18	sequence				
<220> <223>	Primer					
<400> ttggad	66 cttct taaactt	:c			9 (18
<210><211><211><212><213>	21	sequence				
<220> <223>	Primer					
<400> gcagta	67 atgca agaaatt	gaa c			•	21
<210><211><211><212><213>	19	sequence				
<220> <223>	Primer					
<400>	68	n+ a				19

<210> 69	
<211> 21	
<212> DNA <213> Artificial sequence	
12137 Attiticial Sequence	
<220>	
<223> Primer	
4400 60	
<400> 69 gtactgaata gatacatgta g	21
glacigaala galacatgia g	
<210> 70	
<211> 19	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Primer	
4400 70	
<400> 70 gtgtagcaga tcaacatag	19
gtgtagtaga teaacatag	
<210> 71	
<211> 20	
<212> DNA <213> Artificial sequence	
72137 VICITICIAL Seducinos	
<220>	
<223> Primer	
<400> 71	
catcttcaag tttggtgcac	20

SEQUENCE LISTING

- <110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS
- <120> CLONING, EXPRESSION AND CHARACTERIZATION OF THE SPG4 GENE RESPONSIBLE FOR THE MOST COMMON FORM OF AUTOSOMAL DOMINANT SPASTIC PARAPLEGIA
- <130> D18374
- <160> 71
- <170> PatentIn Vers. 2.0
- <210> 1
- <211> 110000
- <212> DNA
- <213> Homo sapiens
- <220>
- <221> exon
- <222> (9932)...(10471)
- <220>
- <221> intron
- <222> (10472)...(33718)
- <220>
- <221> exon
- <222> (33719)...(33805)
- <220>
- <221> intron
- <222> (33806)...(35748)
- <220>
- <221> exon
- <222> (35749)...(35832)
- <220>
- <221> intron
- <222> (35833)...(45022)
- <220>
- <221> exon
- <222> (45023)...(45118)
- <220>
- <221> intron
- <222> (45119)...(60863)
- <220>
- <221> exon
- <222> (60864)...(61051)
- <220>
- <221> intron

```
<210> 69
<211> 21
<212> DNA
<213> Artificial sequence
<223> Primer
<400> 69
                                                                    21
gtactgaata gatacatgta g
<210> 70
<211> 19
<212> DNA
<213> Artificial sequence
<220>
<223> Primer
<400> 70
                                                                    19
gtgtagcaga tcaacatag
<210> 71
<211> 20
<212> DNA
<213> Artificial sequence
<220>
<223> Primer
<400> 71
                                                                    20
catcttcaag tttggtgcac
<210> 72
<211> 1689
<212> DNA
<213> mouse
<220>
<223> Incomplete Spg4 DNA.
<400> 72
aggccgagag cgtccgcgtc ttccacaagc aggccttcga gtacatctcc attgccctgc 60
gcatcgacga ggaagagaaa gcaggacaga aggaacaagc tgtggaatgg tataagaaag 120
gtatcgaaga actggaaaaa ggaatcgctg ttatagttac gggccaaggt gaacagtatg 180
aaagagctag acgtcttcaa gccaaaatga tgactaattt agttatggcc aaggaccgtt 240
tacaacttct agagaagctg caaccagttt tgcaattttc caagtcacag acggacgtct 300
ataacgagag tactaacctg acatgccgca atggacatct ccagtcagaa agtggagcag 360
ttccgaagag gaaagacccc ttaacacatg ctagtaattc attgcctcga tcaaaaactg 420
tectgaaaag tggeteegea gggeteteeg gteaceaeag ggegeetagt tgeagtggtt 480
tgtccatggt ttctggagca agaccgggac ctggtcctgc agctaccaca cataagggta 540
ctccaaaacc aaatagaacc aacaaacctt ctactcccac aactgcagtt cggaaaaaga 600
aagacttgaa aaattttagg aatgtggaca gcaatcttgc taaccttata atgaatgaaa 660
ttgttgacaa tgggacagct gttaagtttg atgacatagc cgggcaggag ctggcaaagc 720
```

```
aagcgctgca ggagattgtc atccttcctt ctctgcggcc tgagttgttc acagggctca 780
gageteetge tagaggettg ttactetteg gteegeeagg aaaeggaaaa acaatgetgg 840
ctaaagcagt agctgcagag tctaatgcga cctttttcaa cataagtgct gccagtttaa 900
cttcaaaata tgtgggagaa ggagagaaat tggtgagagc tctctttgct gtggctcgag 960
aacttcaacc atctataatt tttatagatg aagttgacag tcttttgtgt gagagacggg 1020
aaggggagca cgacgctagc agacggctaa agacggaatt tttaatagaa tttgacgggg 1080
tgcaatctgc tggagatgac agagtacttg taatgggtgc aactaacagg ccccaagagc 1140
ttgatgaagc tgttctcagg cgtttcatta aacgggtata tgtgtcctta ccaaatgagg 1200
agacaagact ccttctgctt aaaaacctgt tgtgtaaaca aggaagtcca ctgacccaaa 1260
aagaactcgc acagcttgct agaatgaccg atggatactc tggaagtgat ctgaccgctt 1320
tggccaagga tgcagccctg ggtcctatcc gagaactgaa gccagagcag gtgaagaata 1380
tgtctgccag tgagatgaga aatattcgat tatctgactt cacagaatcc ttaaaaaaga 1440
taaaacgcag tgtgagtcct cagaccttag aagcatacat acgctggaac aaggattttg 1500
gagacaccac tgtttaaagg aatggatgcc tctgtgagcc catagaacat cgcacttcac 1560
aggaaacaag agctttggct acaggaaccc agacttcgtt tacaggacgt tttagagttt 1620
tcatttttgt gcaccaaact tgaagaggaa caagaagaca gacctaaata aaatatgcaa 1680
                                                                   1689
tatgaatgg
<210> 73
<211> 504
<212> PRT
<213> mouse
<220>
<223> Incomplete murine spastin.
Ala Glu Ser Val Arg Val Phe His Lys Gln Ala Phe Glu Tyr Ile Ser
Ile Ala Leu Arg Ile Asp Glu Glu Glu Lys Ala Gly Gln Lys Glu Gln
             20
Ala Val Glu Trp Tyr Lys Lys Gly Ile Glu Glu Leu Glu Lys Gly Ile
Ala Val Ile Val Thr Gly Gln Gly Glu Gln Tyr Glu Arg Ala Arg Arg
Leu Gln Ala Lys Met Met Thr Asn Leu Val Met Ala Lys Asp Arg Leu
                                         75
Gln Leu Leu Glu Lys Leu Gln Pro Val Leu Gln Phe Ser Lys Ser Gln
Thr Asp Val Tyr Asn Glu Ser Thr Asn Leu Thr Cys Arg Asn Gly His
                                105
Leu Gln Ser Glu Ser Gly Ala Val Pro Lys Arg Lys Asp Pro Leu Thr
                            120
His Ala Ser Asn Ser Leu Pro Arg Ser Lys Thr Val Leu Lys Ser Gly
Ser Ala Gly Leu Ser Gly His His Arg Ala Pro Ser Cys Ser Gly Leu
```

155

160

150

Ser Met Val Ser Gly Ala Arg Pro Gly Pro Gly Pro Ala Ala Thr Thr 165 170 175

His Lys Gly Thr Pro Lys Pro Asn Arg Thr Asn Lys Pro Ser Thr Pro 180 185 190

Thr Thr Ala Val Arg Lys Lys Lys Asp Leu Lys Asn Phe Arg Asn Val 195 200 205

Asp Ser Asn Leu Ala Asn Leu Ile Met Asn Glu Ile Val Asp Asn Gly 210 215 220

Thr Ala Val Lys Phe Asp Asp Ile Ala Gly Gln Glu Leu Ala Lys Gln 225 230 235 240

Ala Leu Gln Glu Ile Val Ile Leu Pro Ser Leu Arg Pro Glu Leu Phe 245 250 255

Thr Gly Leu Arg Ala Pro Ala Arg Gly Leu Leu Phe Gly Pro Pro 260 265 270

Gly Asn Gly Lys Thr Met Leu Ala Lys Ala Val Ala Ala Glu Ser Asn 275 280 285

Ala Thr Phe Phe Asn Ile Ser Ala Ala Ser Leu Thr Ser Lys Tyr Val · 290 295 300

Gly Glu Gly Glu Lys Leu Val Arg Ala Leu Phe Ala Val Ala Arg Glu 305 310 315 320

Leu Gln Pro Ser Ile Ile Phe Ile Asp Glu Val Asp Ser Leu Leu Cys 325 330 335

Glu Arg Arg Glu Gly Glu His Asp Ala Ser Arg Arg Leu Lys Thr Glu 340 345 350

Phe Leu Ile Glu Phe Asp Gly Val Gln Ser Ala Gly Asp Asp Arg Val 355 360 365

Leu Val Met Gly Ala Thr Asn Arg Pro Gln Glu Leu Asp Glu Ala Val 370 375 380

Leu Arg Arg Phe Ile Lys Arg Val Tyr Val Ser Leu Pro Asn Glu Glu 385 390 395 400

Thr Arg Leu Leu Leu Lys Asn Leu Leu Cys Lys Gln Gly Ser Pro
405 410 410

Leu Thr Gln Lys Glu Leu Ala Gln Leu Ala Arg Met Thr Asp Gly Tyr 420 425 430

Ser Gly Ser Asp Leu Thr Ala Leu Ala Lys Asp Ala Ala Leu Gly Pro 435 440 445

Ile Arg Glu Leu Lys Pro Glu Gln Val Lys Asn Met Ser Ala Ser Glu 450 460

Met Arg Asn Ile Arg Leu Ser Asp Phe Thr Glu Ser Leu Lys Lys Ile 470 465 Lys Arg Ser Val Ser Pro Gln Thr Leu Glu Ala Tyr Ile Arg Trp Asn 490 Lys Asp Phe Gly Asp Thr Thr Val 500 <210> 74 <211> 24 <212> DNA <213> Homo sapiens <220> <223> SPG4 gene splice acceptor site. <400> 74 24 atttttatt ttaaagcagg acag <210> 75 <211> 24 <212> DNA <213> Homo sapiens <220> <223> SPG4 gene splice acceptor site. <400> 75 24 aattttttc tttcaggtga acag <210> 76 <211> 24 <212> DNA <213> Homo sapiens <220> <223> SPG4 gene splice acceptor site. <400> 76 24 cttctctgtt gcatagagaa gatg <210> 77 <211>. 24 <212> DNA <213> Homo sapiens <220> <223> SPG4 gene splice acceptor site.

<400> 77

actttttcct tgtcagaaag tgga	24
<210> 78 <211> 24 <212> DNA <213> Homo sapiens	
<220> <223> SPG4 gene splice acceptor site.	
<400> 78 ttttgtatcc tttaagggta ctcc	24
<210> 79 <211> 24 <212> DNA <213> Homo sapiens	
<220> <223> SPG4 gene splice acceptor site.	•
<400> 79 aggtcttgtt tcttagtgga acag	24
<210> 80 <211> 24 <212> DNA <213> Homo sapiens	
<220> <223> SPG4 gene splice acceptor site.	
<400> 80 agtatatatt ttttagttgt tcac	24
<210> 81 <211> 24 <212> DNA <213> Homo sapiens	
<220> <223> SPG4 gene splice acceptor site.	
<400> 81 cttgtgattt ttaaaggcta aagc	24
<210> 82 <211> 24 <212> DNA <213> Homo sapiens <220>	
12207	

<223> SPG4	gene splice acceptor site.	
<400> 82 taatgctttg	ttttaggtgg gaga	24
<210> 83 <211> 24 <212> DNA <213> Homo	sapiens	
<220>		
<223> SPG4	gene splice acceptor site.	
<400> 83 cttgtatttc	ctctagatga agtt	24
<210> 84 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 84 gattttttgc	ttgtaggtac agtc	24
<210> 85 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 85 ggatttttt	ttttaggcgt ttca	24
<210> 86 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 86 ttttaatatt	tttcagacaa gact	24
<210> 87 <211> 24 <212> DNA		

<213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 87 tccttccctt	cctcagaatg actg	24
<210> 88 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 88 cttttatgtt	ttacagaact aaaa	24
<210> 89 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice acceptor site.	
<400> 89 ctttttaaaa	atctagatga gaaa	24
<210> 90 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice donor site.	
<400> 90 tgagaaaggt	aactaggggg ctgg	24
<210> 91 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice donor site.	
<400> 91	aagattgtat ttgt	24

```
<210> 92
<211> 24
<212> DNA
<213> Homo sapiens
<220>
<223> SPG4 gene splice donor site.
<400> 92
                                                                    24
acttctaggt atcaattaat gtat
<210> 93
<211> 24
<212> DNA
<213> Homo sapiens
<220>
<223> SPG4 gene splice donor site.
<400> 93
                                                                    24
ccagtcaggt gggtttaggt taac
<210> 94
<211> 24
<212> DNA
<213> Homo sapiens
<220>
<223> SPG4 gene splice donor site.
<400> 94
                                                                    24
ctcataaggt attctgggac agta
<210> 95
<211> 24
<212> DNA
<213> Homo sapiens
<220>
<223> SPG4 gene splice donor site.
<400> 95
                                                                    24
gtggacaagt aagttttgcc atct
<210> 96
<211> 24
<212> DNA
<213> Homo sapiens
<220>
<223> SPG4 gene splice donor site.
<400> 96
```

-

ggcctgaggt	aagaacttta tatt			·		24
<210> 97 <211> 24 <212> DNA <213> Homo	sapiens	·			· .	
<220> <223> SPG4	gene splice donor	site.				
<400> 97 caatgctggt	aagggttctc ttca					24
<210> 98 <211> 24 <212> DNA <213> Homo	sapiens					
<220> <223> SPG4	gene splice donor	site.				
<400> 98 caaaatacgt	gagtgctctg tttc					24
<210> 99 <211> 24 <212> DNA <213> Homo	sapiens					
<220> <223> SPG4	gene splice donor	site.				
<400> 99 ttttataggt	aagaacatat tttc		÷			24
<210> 100 <211> 24 <212> DNA <213> Homo	sapiens					
<220> <223> SPG4	gene splice donor	site.				
<400> 100 ttgatggtgt	aagtgttgat tatg					24
<210> 101 <211> 24 <212> DNA <213> Homo	sapiens			·		

<220>

<223> SPG4	4 gene splice donor site.	
<400> 101 gttctcaggt	agggagattt atat	24
<210> 102 <211> 24 <212> DNA <213> Homo	o sapiens	
<220> <223> SPG4	d gene splice donor site.	
<400> 102 atgaggaggt	atgtatctgt gttt	24
<210> 103 <211> 24 <212> DNA <213> Homo	o sapiens	
<220> <223> SPG4	gene splice donor site.	
<400> 103 cttgctaggt	gagtaatttg gatt	24
<210> 104 <211> 24 <212> DNA <213> Homo	sapiens	
<220> <223> SPG4	gene splice donor site.	
<400> 104 tatccgaggt	aggtatacaa gagc	24
<210> 105 <211> 24 <212> DNA <213> Homo	o sapiens	
<220> <223> SPG4	gene splice donor site.	
<400> 105	atagtattt acaa	24